**DOCUMENT 363-83** 

DUGWAY, UTAH

RANGE REFERENCE ATMOSPHERE
0-30 KM ALTITUDE

**JUNE 1983** 



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RANGE COMMANDERS COUNCIL

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#### FOREWORD

Atmospheric parameters are essential to the research and development of issiles and aerospace vehicles. In the early 1960's, the need was recognized to realistic atmospheric models derived in a consistent manner for each of the early major test ranges. An atmospheric model derived from statistical data for a particular geographical location is referred to as a reference atmosphere.

The first Range Reference Atmosphere (RRA) was issued in 1963 by the inter-Range Instrumentation Group (IRIG) for Cape Kennedy, Florida, and was followed by additional publications for several ranges up to 1974. Since that time, improved upper air data bases have become available from which to develop the RRA. These resulted from the extended period of records and from a provement in the upper air measuring program by racketsondes for altitudes the rawinsonde ceiling of 30 km. Revised and improved RRAs are justically for the following reasons:

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  - 7) Most ranges now have an extended and improved upper air data base which to develop a more definitive RRA.

There are requirements for RRAs for new ranges and range sites.

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Advances in statistical modeling techniques have been made because concerns availability of high-speed electronic computers. These have the adoption of advanced concepts in atmospheric modeling.

For these reasons, the Range Reference Atmosphere Committee (RRAC) was new and improved RRAS. The purpose, scope, and objectives of this task outlined in the following paragraphs.

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Scope: Using the best available upper atmosphere data base to include 'dwinsonde, rocketsonde and possibly other high-altitude data sources for range location, the task is to establish a model of certain statistics wind and thermodynamic quantities derived in a uniform manner and public in a standardized format.

Objectives: The wind statistics shall be, insofar as practical, modeled to be consistent with rigorous mathematical probability properties of the multivariate normal probability theory. The thermodynamic quantities statistics shall be, insofar as practical, modeled to be consistent with the hydrostatic equation, the equation of state, and the probability principles that are related through these physical equations. The document shall serve as an authoritative source of information and as an atmospheric model for a particular range. The first in the series of revised RRAs to be published is for Kwajalein Missile Range (KMR) (publication date December 1982). The altitude range required for KMR is 0 to 70 km. The order of priority for the subsequent publications is:

	Range	Altitude Range Required
1.	AFFTC/Edwards AFB, CA	0 - 70 km <sup>a</sup>
2.	ESMC/Cape Canavera! AFS, FL	0 - 70 km
3.	WSMC/Vandenberg AFB, CA	0 - 70 km <sup>-2</sup>
4.	WSMR/White Sands, NM	0 - 70 km
5.	PMTC/Point Mugu, CA	0 - 70 km
6.	UTTR/Dugway (Michael AAF), UT	0 - 30 km <sup>2</sup>
7.	AD/Eglin AFB, FL	0 - 30 km
8.	ESMC/Ascension Island	0 - 70 km (Terminates at 66 km because of insufficient data)
9.	NASA/Wallops Flight Center, VA	0 - 70 km
10.	Taquac (Guam)	0 - 30 km
11.	PMTC/Barking Sands, HI	0 - 70 km

In keeping with the RCC's objective of standardization, the modeling techniques, basic text, and tabulation format are to be the same for all RRAs. These new and revised RRAs present not only the mean values of the thermodynamic quantities (pressure, temperature, virtual temperature, and density), but also include statistical measures for the dispersion (i.e., standard deviations and skewness coefficients). New quantities presented are water vapor pressure and dewpoint temperature. The statistical modeling for the wind is entirely new. The new approach uses the properties of the bivariate normal probability distribution function.

a. Use rocketsonie data from PMTC/Point Migu for altitudes above 30 km.

b. Consider augmenting data base from Ely or Salt Lake City.

All final computations were performed by the United States Air Force Environmental Technical Applications Center (USAFETAC) in response to a task from Eastern Space and Missile Center (ESMC).

The text was prepared jointly by USAFETAC and the NASA/George C. Marshalí Space Flight Center's Space Sciences Laboratory, Atmospheric Sciences Division. The editing and preparation of the draft manuscript were performed by the NASA/MSFC organization.

The cochairmen express their gratitude to all RRAC members and their respective colleagues who have made significant technical contributions to the establishment of these RRAs.

Special thanks are tendered to Lt. B. Novograd for his dilligence in forming the many computations and the development of the primary tables, I through IV. Special thanks goes to Lt. F. Wirsing for editing and formulating the equations for the derivable thermodynamic equations. These gentlemen performed this outstanding work under the direction of Major B. Lilius, USAFETAC.

Grateful acknowledgment goes to Mrs. Annette Tingle, NASA/MSFC, for editing the draft manuscript.

The RRAC consists of representatives from the U.S. Air Force, U.S. Army, National Aeronautics and Space Administration, U.S. Navy, and National Oceanic and Atmospheric Administration. The committee members for the RRA for the first publication are.

- G. G. Boire, WSMI
- G. H. Daniel, ES!
- .. de Violini, PM
- F. G. Finger, NOAA/NU
- E. E. Fisher, HQ AFS
- E. R. Hixon, PMT3
- J. M. Hobbie, KMI
- E. J. Keppel, A'
- S. F. Kubinski, WSMi.
- F. J. Schmidlin, NASA/WFC
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DUGWAY, UTAH

RANGE REFERENCE ATMOSPHERE 0-30 KM ALTITUDE

June 1983

Prepared by

Range Reference Atmosphere Committee Meteorology Group Range Commanders Council

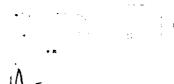
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#### LIST OF ORGANIZATION ACRONYMS

AD Armament Division

AFFTC Air Force Flight Test Center

AFSC Air Force Systems Command

AFSC/AFGL AFSC/Air Force Geophysics Laboratory

AFSC/SD AFSC/Space Division

AFSCF Air Force Satellite Control Facility

AFTFWC Air Force Tactical Fighter Weapons Center

AWS Air Weather Service

BMD Ballistic Missile Division

DOD Department of Defense

DOE Department of Energy

DOE/NTS DOE/Nevada Test Site

DPG Dugway Proving Ground

ESMC Eastern Space and Missile Center

ETR Eastern Test Range

KMR Kwajalein Missile Range

NASA National Aeronautics and Space Administration

NASA/MSFC NASA/Marshall Space Flight Center

NASA/WFC NASA/Wallops Flight Center

NOAA National Oceanic and Atmospheric Administration

NWC Maval Weapons Center

PMTC Pacific Missile Test Center

USA/DTC U.S. Army/Deseret Test Center

USAECOM U.S. Army Electronics Command

USAFETAC United States Air Force Environmental Technical

Applications Center

#### **FOREWORD**

Atmospheric parameters are essential to the research and development of missiles and aerospace vehicles. In the early 1960's, the need was recognized for realistic atmospheric models derived in a consistent manner for each of the several major test ranges. An atmospheric model derived from statistical data for a particular geographical location is referred to as a reference atmosphere.

The first Range Reference Atmosphere (RRA) was issued in 1963 by the Inter-Range Instrumentation Group (IRIG) for Cape Kennedy, Florida, and was followed by additional publications for several ranges up to 1974. Since that time, improved upper air data bases have become available from which to develop the RRA. These resulted from the extended period of records and from improvement in the upper air measuring program by rocketsondes for altitudes above the rawinsonde ceiling of 30 km. Revised and improved RRAs are justified for the following reasons:

- 1) Needs for more definitive statistical atmospheric models have arisen because of changes and advances in aerospace technology. The Space Transportation System (Space Shuttle) is one example.
- 2) Most ranges now have an extended and improved upper air data base from which to develop a more definitive RRA.
  - 3) There are requirements for RRAs for new ranges and range sites.
- 4) There have been scientific advances in understanding the upper atmospheric structure and physical relationships.
- 5) Advances ir statistical modeling techniques have been made because of the general availability of high-speed electronic computers. These have led to the adoption of advanced concepts in atmospheric modeling.

For these reasons, the Range Reference Atmosphere Committee (RRAC) was tasked by the Range Commanders Council Meteorology Group (RCC MG) to establish new and improved RRAs. The purpose, scope, and objectives of this task are outlined in the following paragraphs.

Purpose: This committee, Task MG-1, establishes RRAs for the several ranges is provided by the RCC. An RRA is a model of the Earth's atmosphere over a geographical location of interest, for use by DOD and other U.S. Government range users. The RRA is used to provide planning data for evaluating environmental constraints for the particular configurations of environment-sensitive systems and components being developed or undergoing tests.

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- J. M. Hobbie, KMR
- E. J. Keppel, AD
- S. F. Kubinski, WSMR
- F. J. Schmidlin, NASA/WFC
- O. E. Smith Cochairman, NASA/MSFC

Maj. B. W. Galusha Cochairman, USAF/ETAC

#### CHAPTER I. INTRODUCTION

## A. Definition and Purpose of the Range Reference Atmosphere

#### A.1 Definition

A reference atmosphere is a statistical model of the Earth's atmosphere derived from upper air measurements over a particular geographical location. Hence, these Range Reference Atmospheres (RRAs) are atmospheric models developed by the Range Reference Atmosphere Committee (RRAC) in response to a task by the Range Commanders Council Meteorology Group (RCC MG) and published by the RCC Secretariat. The RCC MG, formerly called the Inter-Range Instrumentation Group/Meteorology Working Group (IRIG/MWG), published a series of RRAs during the period 1963 through 1974.

## A.2 Purpose

A series of revised and expanded RRAs are to be published for locations of interest to the RCC. These publications are to serve as authoritative reference sources on certain upper air statistics and as atmospheric models for particular range sites. The technical usefulness of these documents for the ranges, range users, U.S. aerospace industries, and the scientific community is recognized because of the standardization of the development techniques and the presentation of the tabulations.

## B. Scope of the Range Reference Atmosphere and Arrangement of Tables

#### B.1 Scope

The RRA contains tabulations for monthly and annual means, standard deviations, and skewness coefficients for windspeed, pressure, temperature, density, water vapor pressure, virtual temperature, and dewpoint temperature; the means and standard deviations for the zonal (U) and meridional (V) wind components; and the linear (product moment) correlation coefficient between the wind components. These statistical parameters are tabulated at the station elevation, at 1-km intervals from sea level to 30 km, and at 2-km intervals from 30 to 90 km. The wind statistics are given at approximately 10 m above the station elevations and at altitudes with respect to mean sea level thereafter. For those range sites without rocketsonde measurements, the RRAs terminate at 30 km altitude, or they are extended, if required, when rocketsonde data from a nearby launch site are available. There are four sets of tables for each of the 12 monthly reference periods and the annual reference period.

#### B.2 Arrangement of Tables

The statistical parameters for the RRA models are presented in four tables, as outlined in the following paragraphs.

Table I contains all the wind statistical parameters. This table gives the monthly and annual means and standard deviations of the U and V wind components and the linear (product moment) correlation coefficient between these

two components, the mean, standard deviation and skewness coefficient of the windspeed; and the number of wind observations (sample size).

Table II contains the monthly and annual means, standard deviations, and skewness values of pressure, temperature, and density, and the number of observations used for each of these thermodynamic quantities.

Table III contains the monthly and annual means, standard deviations and skewness values of the water vapor pressure, virtual temperature and dewpoint, and the number of observations for each of these moisture-related quantities. The statistical parameters for water vapor pressure and dewpoint terminate at 15 km altitude. Above 15 km the statistical parameters for virtual temperature are considered to be the same as those for temperature.

Table IV contains the monthly and annual mean atmospheric models for the thermodynamic variables: pressure, virtual temperature, and density. This table is derived from the monthly and annual mean virtual temperature versus altitude (geometric) using the hydrostatic equation and the equation of state. Also presented is the geopotential height corresponding to the tabulated geometric altitudes.

The physical unit for all wind parameters is meters per second. The physical unit for pressure is millibars; for temperature and virtual temperature, degrees Kelvin; for density, grams per cubic meter; and for water vapor pressure, millibars. In all cases the skewness coefficient and the correlation coefficient between wind components are unitless. All reference to altitude is geometric altitude and is expressed in kilometers. All reference to height is geopotential height and has the unit geopotential meters or kilometers. All geometric altitudes and geopotential heights are with respect to mean sea level.

## C. Data Quality Control Procedures

A small portion (less than 10 percent) of the soundings in the data base used to calculate the RRA tables contained erroneous data values. The soundings which contained these erroneous values were eliminated from the data base using the following procedures:

- 1) Soundings containing gaps in their height data greater than 200 mb were rejected. This step was taken because some soundings only contained height values at their "mandatory" pressure levels, which were occasionally missing, resulting in soundings with no height information at all.
- 2) An initial set of RRA statistics was computed using all the remaining soundings. This initial set of statistics was used to determine data limits for the temperature, pressure, U and V components of the wind, and the dewpoint (for the 0- to 30-km portion of the RRA) or the density (for the 30- to 90-km portion of the RRA). The lower (upper) data limits were set at the mean value for a specific parameter, minus (plus) six standard de/iations of that quantity. One pair of data limits was computed for each of these parameters: month of the year and data level.

- 3) This initial set of data limits was then used to screen the data base. All the soundings that contained values outside these data limits were rejected. A new RRA was then computed using the screened data base. This second RRA was used to generate a second set of data limits.
- 4) The second set of data limits was then used to screen the data base further. A new RRA was again generated. The skewness values in this RRA were then evaluated, according to empirical criteria specified in section III.A.3 of this document for the winds, and according to criteria in section III.A.3 for the thermodynamic quantities. If these criteria were satisfied, the new RRA was then used to generate a final set of data limits, which were used to control the quality of the data base for the final version of the RRA.
- 5) Occasionally, the third RRA that was generated did not satisfy all of the skewness criteria. This indicated that some incorrect values were still present in the data base. To complete quality control, steps 3 and 4 were repeated for additional iterations (usually one or two) until the resulting RRA satisfied the skewness criteria. At that point, a final set of data limits was generated. This final set of data limits was then used to control the quality of the data base and generate the final RRA.

## D. Organization of the Chapters

Because there are plans to publish a series of RRAs, comments on the special organization of the document are in order. The RRA document is arranged in four chapters. Chapter I is the introduction. Chapter II, Wind Statistics and Models, contains the techniques used to arrive at the wind statistical parameters, table I, and the probability functions that are to be used as wind models to derive several wind statistics. Chapter III. Statistics of Thermodynamic Quantities and Models, contains the techniques used to arrive at the thermodynamic and moisture-related statistical parameters given in tables II and III and the atmospheric thermodynamic model presented in table IV. This chapter also contains sets of equations to calculate several atmospheric properties. Chapter IV contains the general conclusions and recommendations. These four chapters are reprinted without change for each documented RRA to assure consistency and for expediency in preparing the documentation. To account for variations particular to a specific RRA, two appendixes have been included. Appendix A, Examples of Wind Statistics, is designed to give a few illustrative examples of wind statistics for the specific RRA and cursory observations, comparisons, or comments on wind statistics. Appendix B, Range Specific Information, is designed to present specific information particular to the range, such as geographical location, data base, etc., and any cursory observations or comments on the thermodynamic quantities.

Read these appendixes! They are located as the last two units in the document because they may vary in length depending on the circumstances. Appendixes A and B and tables I, II, III, and IV are the only differences among the RRA documents published in this new RRA series.

#### CHAPTER II. WIND STATISTICS AND MODELS

#### A. General Considerations

#### A.1. Objectives

An objective of the RRA is to furnish minimum tabulation for the wind statistics. To meet this objective, the bivariate normal probability distribution was adopted as a statistical model for the wind treated as a vector quantity at the RRA data levels. Only five statistical parameters are required to completely describe this probability function. In Cartesian coordinates these parameters are the means and standard deviations of the two orthogonal components and the correlation coefficient between the two components. These five statistical parameters for the U and V (meteorological coordinates) components are given in table I. The statistical properties of the bivariate normal probability distribution are used to derive many wind statistics that are of interest to the ranges and range users. This procedure produces consistent wind statistics that are connected through rigorous mathematical probability functions. By using these functions, extensive tabulations of wind statistics are avoided.

The statistical properties of the bivariate normal probability distribution presented for the vector wind statistical model are:

- 1) The wind components are univariate normally distributed.
- 2) The conditional distribution of one component given a value of the other component is univariate normally distributed.
  - 3) The windspeed is of the form of a generalized Rayleigh distribution.
  - 4) The frequency distribution of wind direction can be derived.
- 5) The conditional distribution of windspeed given a value of wind direction (wind rose) can be derived.
- $\,$  6) The five tabulated wind statistical parameters with respect to the meteorological U and V coordinate system can be derived for any arbitrary rotation of the orthogonal axes.

The probability distribution functions and sets of equations to derive wind statistics for the previously stated properties of the vector wind model are presented in this chapter. Symbols used are summarized in table A. Illustrative examples are presented in appendix A. No attempt is made to give the derivation of the probability functions. The reader is referred to Smith (1976) for some derivations and several applications of the probability distribution properties for wind statistics.

#### A.2. Data Quality Control

The U and V components of the wind were used to generate data limits set at plus and minus six standard deviations from the mean for each of the

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#### TABLE A. LIST OF SYMBOLS USED IN CHAPTER II

- N The number of wind measurements in table 1
- r A general variable for the bivariate normal probability distribution in polar coordinates
- R A generalized Rayleigh variable used for derived windspeed probability distribution
- R (U, V) The linear (product moment) correlation coefficient between the zonal and meridional wind components in table I
- SK (W) Skewness parameter for windspeed in table I
- S (U) The standard deviation of the zonal wind component in able I
- S (V) The standard deviation of the meridional wind component in table I
- S (W) The standard deviation of windspeed in table I
- t A standardized normal variate used in text table B
- U The zonal wind component
- UBAR The mean value of the zonal wind component in table I
- V The meridional wind component
- $VBAR\mbox{ -}$  The mean value of the meridional wind component in table I
- W Windspeed or modulus of wind vector, a scalar quantity
- WBAR The mean value of windspeed in table I
- X A general component variable or coordinate axis
- Y A general component variable or coordinate axis
- $\overline{\mathbf{X}}$  A general component mean value in the [x,y] coordinate system
- $\overline{Y}$  A general component mean value in the [x,y] coordinate system
- a (alpha) Rotation angle for the [x,y] coordinate system

## TABLE A. (concluded)

- $\theta$  (theta) Wind direction in the polar coordinate system
- $\lambda_{\mbox{\scriptsize ()}}$  (Lambda) A parameter in the bivariate normal probability distribution in text table C
- $\xi$  (Xi) The mean value in the standardized normal probability distribution used in text table B
- $\pi$  (Pi) Constant = 3.14159 ...
- $\rho$  (Rho) The general linear correlation coefficient between the two component variables in the [x,y] coordinate system
- $\sigma_x, \sigma_y$  The general standard deviations of the x and y component variables in the [x,y] coordinate system.

quantities. These data limits were used to screen the wind data base, as described in section I.C. The data base was considered to be free from errors under the following conditions:

- 1) The skewness of the windspeed was below 4.0 at data levels where the mean windspeed was less than 15 m/s, and
- 2) The skewness of the windspeed was below 2.5 at data levels where the mean windspeed was greater than 15 m/s.

#### A.3 Limitations

For the wind statistics, the correlation coefficients for like wind components and unlike wind components between altitude levels were not computed. Therefore, wind statistics with respect to altitude (profile) cannot be derived from the RRA statistics. For wind profile modeling techniques the user is referred to Smith (1976). However, the wind statistics at discrete altitudes are valid; all of the probability distribution functions given in chapter II can be derived from the five wind component statistical parameters contained in table I, and the derived distributions can be considered as wind models at discrete altitudes.

By convention, in the statistical literature Greek letters are used for population or theoretica'ly known parameters, and sample estimates are denoted by English alphabetical letters or with a "hat" (^) over the Greek letters. In chapter II Greek letters are used for the variances and the linear correlation coefficient, and the means are denoted by  $\overline{X}$  and  $\overline{Y}$  when dealing with the bivariate normal distribution. It will always be understood that table I contains sample estimates of the statistical parameters and they are with respect to the meteorological U and V coordinate system.

B. Coordinate System and Computation of Statistical Parameters

#### B.1. Coordinate System

Wind measurements are recorded in terms of magnitude and direction. The wind direction is measured in degrees clockwise from true north and is the direction from which the wind is blowing. The wind magnitude (the modulus of the vector) is the scalar quantity and is referred to as windspeed or scalar wind. A statistical description that accounts for the wind as a vector quantity is appropriate and requires a coordinate system.

For the RRA the standard meteorological coordinate system has been chosen for the wind statistics, all tables of statistical parameters, and related discussions because the coordinate system used in aerospace and related applied fields has not always been consistent.

Using figure 1, the polar and Cartesian forms for the meteorological coordinate system are defined:

- W = windspeed, scalar wind, or magnitude of the wind vector in meters per second.
- $\theta$  = wind direction.  $\theta$  is measured in degrees clockwise from true north and is the direction from which the wind is blowing.
- U = zonal wind component, positive west to east, in meters per second.
- V = meridional wind component, positive south to north, in meters per second.

The components  $\theta$  and W define the polar form, and the U-V components define the Cartesian forms:

$$U = -W \sin \theta \quad , \quad 0 < \theta < 360^{\circ}$$

$$V = -W \cos \theta \qquad . \tag{2}$$

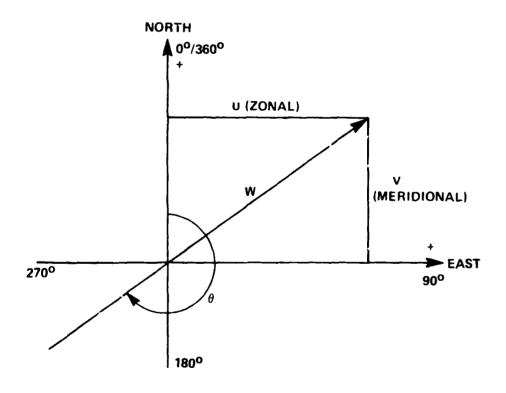


Figure 1. The meteorological coordinate system.

It is helpful to note the difference between the mathematical convention for a vector direction and the meteorological convention for wind direction:

$$\theta \text{ met} = 270 - \theta \text{ math} \tag{3}$$

when  $0 < \theta$  math < 270°

$$\theta$$
 met = 360 + (270 -  $\theta$  math)

when 270 <  $\theta$  math  $\leq$  360°

## B.2 Computation of Statistical Parameters

The wind statistical parameters in table I for the means and standard deviations of the U and V wind components and windspeed and the skewness parameter of windspeed were computed using the sums technique presented in chapter III.C.3. In addition, the linear (product moment) correlation coefficient between the U and V wind components, r (u,v) in table I, was computed. This correlation coefficient is defined as

$$r(u,v) = \frac{\sum_{i=1}^{n} (U_i - \overline{U}) (V_i - \overline{V})}{N s(u) \cdot s(v)} . \tag{4}$$

These statistical parameters are with respect to the Standard Meteorological Coordinate System.

#### C. Statistical Wind Models

## C.1. Wind Component Statistics

The univariate normal (Gaussian) probability distribution function is used to obtain wind component statistics. In generalized notations, this probability density function (pdf) is

$$f(t) = \frac{e^{-\frac{t^2}{2}}}{\sqrt{2\pi}}, \qquad (5)$$

where t = X -  $\xi/\sigma$ <sub>X</sub> is the standardized variate, with  $\xi$  defining the mean and  $\sigma$ <sub>X</sub> the standard deviation. The probability distribution function (PDF) is

$$F(X) = \int_{-\infty}^{X} f(t) dt . \qquad (6)$$

Because this integral cannot be obtained in closed form, it is widely tabulated for zero mean and unit standard deviation. For a convenient reference for the RRA, selected values of F(X) are given in table B. To emphasize the connotation of probability, F(X) is shown in table B as  $P\left\{X\right\}$ .

The t values in table B are used as multiplier factors to the standard deviation to express the probability that a normally distributed variable, X, is less than or equal to a given value as

$$P\{X \leq \text{mean} + t \mid x\} = \text{probability}, p$$
 (7)

For example, when t = 1.6449, the probability that X is less than or equal to the mean plus 1.6449 standard deviations is 0.95. That value of X that is less than or equal to the mean plus 1.6449 standard deviations is called the 95th percentile value of X. Also given in table B are the numerical values to express the probability that X falls in the interval  $X_1$  and  $X_2$ ; i.e.,

$$P\left\{X_1 \perp X \leq X_2\right\} = \text{Interpercentile Range},$$
 (8)

where

$$X_{1} = \bar{X} + t \cdot \frac{1}{x}$$

$$X_{2} = \bar{X} + t \cdot \frac{1}{x}$$

For t = 1.9602 the probability that X lies in the interval  $X_1$  and  $X_2$  is 0.95. The values of  $X_1$  and  $X_2$  in this example comprise the 95th interpercentile range.

For a normally distributed variable, the mode (most frequent value) and the median (50th percentile value) are the same as the mean value. The means and standard deviations of the U and V wind components from table 1 are used in equations (7) and (8) to compute the percentile values and interpercentile ranges of the U and V wind components. When equation (7) is illustrated on a normal probability graph, a straight line is formed.

#### C.2. The Vector Wind Model

Because wind is a vector quantity having direction and magnitude that can be expressed as two components in an orthogonal coordinate system, a probability model that describes the joint relationship is the bivariate normal probability distribution. In general component notation, the bivariate normal probability density function (BNpdf) is

TABLE B. VALUES OF t FOR STANDARDIZED NORMAL (UNIVARIATE) DISTRIBUTION FOR PERCENTILES AND INTERPERCENTILE RANGES

t	P(X)	AND INTERPERCENTILE RANGES $X \qquad P\{X_1 \in X \subseteq X_2\} \ (\%)$
-3,0000	0.00135	ξ - 3.0000 σ
-2.5758	0.00500	ξ - 2.5758 σ
-2,3263	0.01600	ξ - 2.3263 σ
-2.2365	0.01266	ξ - 2.2365 σ
-2.0000	0,02275	ξ - 2.0000 σ
-1.9602	0.02500	ξ - 1.9602 σ
-1.6449	0.05000	ξ - 1.6449 σ
-1.2816	0.10000	ξ - 1.2816 σ
-1.0000	0.15866	ξ - 1.0000 σ
-0.8416	0.20000	$\xi = 0.8416 \ \sigma \longrightarrow \frac{1}{2}$
-0.6745	0.25000	$\xi = 0.6745  \sigma$ $\frac{7}{\xi} = 0.6745  \sigma$ $7$
-0.2533	0.40000	
0.0000	0.50000	(80) (80) (50) (50) (50) (50) (60) (10) (10) (10) (10) (10) (10) (10) (1
0,2533	0.60000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0,6745	0.75000	$\xi + 0.6745 \sigma \longrightarrow 1$
0,8416	0,83000	$\xi + 0.8614 \sigma$
1,0000	0.84134	ξ + 1.0000 σ
1.2816	0,90000	ξ +1.2816 σ
1.6449	0.95000	ξ + 1.6449 σ
1.9602	0.97502	ξ +1.9602 σ
2.0000	0.97725	ξ + 2.0000 σ
2,2365	0.98734	ξ +2.2365 σ
2.3263	0.99000	ξ + 2.3263 σ
2,5758	<b>0.9950</b> 0	ξ + 2.5758 σ
3.0000	0.99865	ξ 3.0000 σ
		where $X_1 = \xi - t\sigma$ and $X_2 = \xi + t\sigma$

$$f(X,Y) = \frac{1}{2\pi J_{X}J_{Y}} \sqrt{1-\rho^{2}} \left[ \exp \left( \frac{-1}{2(1-\rho^{2})} \right) \left\{ \frac{(X-\overline{X})^{2}}{J_{X}J_{Y}} - \frac{2\rho(X-\overline{X})(Y-\overline{Y})}{J_{X}J_{Y}} + \frac{(Y-\overline{Y})^{2}}{J_{Y}J_{Y}} \right\} \right] - \epsilon \leq X \leq \epsilon \text{ and}$$

$$-\infty \leq Y \leq \infty \qquad , \tag{9}$$

where the five parameters are  $\overline{x}, \overline{y}$ , the component means;  $\sigma_x$ ,  $\sigma_y$ , the component standard deviations; and  $\rho$ , the correlation coefficient between the two component variables, X and Y.

For many applications the interest is in determining the probability that a point  $\{X,Y\}$  will fall within a contour of equal probability density. The exponential terms of equation (9), when set equal to a constant,  $\lambda^2$ , give a family of ellipses depending on the value of the constant. The ellipses have a common center at the point  $\{\overline{X},\overline{Y}\}$ . Integration of equation (9) over the region bounded by the contours of equal probability density gives

$$P(x) = 1 - e^{\frac{-\lambda^2}{2(1 - x^2)}}.$$
 (10)

Solving for  $\lambda^2$  and raplacing  $P(\lambda)$  by p gives

$$x^2 = -2(1-x^2) \ln (1-p)$$
 (11)

Now define

$$\lambda_{e} = \sqrt{2} \sqrt{-\ln (1 - p)}$$
 (12)

For ready reference and comparisons,  $\lambda_{\rm e}$  is shown in table C for selected values of p.

TABLE C. VALUES OF  $\lambda$  FOR BIVARIATE NORMAL DISTRIBUTION ELLIPSES AND CIRCLES

	λ <sub>e</sub>	λ <sub>c</sub>		$\lambda_{e}$	λ <sub>e</sub>
P( ' )	(ellipse)	(circle)	P( ; )	(ellispe)	(circle)
0.000	0.0000	0.0000	65.000	1.4490	1.0246
5,000	0.3203	0.2265	68.268	1.5151	1.0713
10.000	0.4590	0.3246	70.000	1.5518	1.0973
15,000	0.5701	0,4031	75.000	1.6651	1.1774
20,000	0.6680	0.4723	80.000	1.7941	1.2686
25,000	0.7585	0.5363	85,000	1.9479	1.3774
30.000	0.8446	0.5972	86.466	2.0000	1.4142
35,000	0.9282	0.6563	90.000	2.1460	1.5175
09.347	1.0000	0.7071	95.000	2, 4477	1.7308
to.000	1.0108	0.7147	95.450	2.4860	1.7579
45,000	1.0935	0.7732	98.000	2.7971	1,9778
50,000	1.1774	0.8325	98.168	2,8284	2.0000
54,406	1,2533	0.8862	98.889	3,0000	2.1213
55,000	1.2637	0.8936	99.000	3,0348	2, 1460
60.000	1, 3537	0.9572	99.730	3,4393	2.4320
63,212	1.4142	1.0000	99.9877	4,2426	3,0000

 $\lambda_{\rm e} = \sqrt{2 \cdot -\ln(1-P)}$ 

 $\chi_{c} \sim \sqrt{-\ln(1-P)}$ 

The probability ellipse that contains p-percent of the wind vectors expressed in the most general form is the conic defined by

$$AX^2 + BXY + CY^2 + DX + EY + F = 0$$
 (13)

where

$$A = \frac{2}{y^2}$$

$$B = -2 \lim_{x \to y}$$

$$C = \frac{2}{x}$$

$$D = 2 \cdot x \cdot y + \overline{Y} - 2 \cdot y \cdot \overline{X} = -(B\overline{Y} + 2A\overline{X})$$

$$E = 2 : x : y : \overline{X} = 2 : \frac{2}{X} \overline{Y} = - (B\overline{X} + 2C\overline{Y})$$

$$F = A\overline{X}^2 + C\overline{Y}^2 + B\overline{X}\overline{Y} - AC(1 - \sqrt{2}) + \frac{2}{e} .$$

and

$$\frac{1}{e} = \sqrt{2} \sqrt{-\ln (1 - c)} .$$

For graphical presentations, the range of the variable is important in order to arrange the scale. The largest and smallest values of X and Y for a given probability ellipse, p, are given by

$$X_{L,S} = \overline{X} + J_X^{\lambda} e$$
 (14)

$$Y_{L,S} = \overline{Y} \pm \pi_{V,e} \qquad (15)$$

where, as before,  $e = \sqrt{2} \sqrt{-\ln (1-p)}$ .

Although there are several approaches to graphing the probability ellipses, the following procedure is advantageous for electronic computer plotting. In establishing the computer plotting program, the sample estimates for  $\overline{X}, \overline{Y}, \sigma_{\chi}, \sigma_{\chi}$ , and  $\rho$  are constants in equation (13). The user makes the choice of probability ellipses desired. Thus,  $\rho$  in equation (12) is programmed as a parameter. The largest and smallest values for  $\chi$  and  $\Upsilon$  are computed by equations (14) and (15) for the largest probability ellipse selected. This sets the graphical scale. Values of  $\chi$  within the range of " $\chi$  smallest" to " $\chi$  largest" are obtained by incrementing  $\chi$  between these limits. Using the quadratic equation, a solution for  $\Upsilon$  of equation (13) is made and plotted for each value of  $\chi$ . The centroid ( $\chi$ ) for the family of probability ellipses is plotted as a point. Labeling and other identification complete the plotting program.

For a given probability, equation (13) defines an ellipse that contains p-percent of the points X,Y. Since the entire area under the bivariate normal density function [equation (5)] is unity, upon integration for a given probability ellipse, that given ellipse contains p-percent of the total area. In the wind statistics, p-percent of the wind vectors fall within the specified probability ellipse. From this point of view, a specified probability ellipse gives the joint probability that p-percent of the U-V components lie within the given ellipse.

When  $\sigma_{\chi}^{\ 2}=\sigma_{\chi}^{\ 2}=\sigma^2$  and  $\rho=0$  in the bivariate normal distribution, the probability ellipses of equation (13) reduce to circles whose centers are at the means  $\overline{X},\overline{Y}$ . The radii of the probability circles are  $\sigma_{V1}^{\ 2}c$ , where

$$\mathbf{v}_{V1} = \sqrt{2\mathbf{v}^2} \tag{16}$$

and

$$\alpha_{\rm c} = \sqrt{-\ln (1 - p)} \quad . \tag{17}$$

Values for  $\mathcal{A}_{\mathcal{C}}$  for selected probabilities, p, are given in table C.

Because this function is simple, it can easily be graphed manually. However, the generalized plotting technique for electronic computer plotters, as represented by equation (13), can be advantageously used.

## C.3. Derived Distributions for Wind Statistics

In this subsection the probability distribution functions and sets of equations are presented to derive certain probability distribution functions for wind statistics. These derived probability distributions are:

- 1) The conditional distribution of wind components
- 2) The generalized Rayleigh distribution for windspeed
- 3) The distribution for wind direction
- 4) The conditional distribution of windspeed given a wind direction (wind rose).

The required five statistical parameters for these derived distributions for wind statistics are given in table I.

## C.3.1 The Conditional Distribution of Wind Components

Given that two random variables X and Y are bivariate normally distributed, the conditional distribution f(Y|X) is read as f(Y) given X, and likewise f(X|Y) is read as f(X) given Y. The conditional probability distribution function F(Y|X) has the mean E(Y|X) and variance  $\sigma^2(x|y)$ , where

$$E(Y|X^*) = \overline{Y} + \wp\left(\frac{\Im y}{\sigma_X}\right) (X^* - \overline{X})$$
 (18)

and

$$\sigma^2(y|x^*) = \sigma_y^2 (1 - \rho^2)$$
 (19)

The conditional standard deviation is

$$\sigma_{(\mathbf{y}\mid\mathbf{x}^*)} = \sigma_{\mathbf{y}} \sqrt{1 - \frac{2}{1}} . \qquad (20)$$

By interchanging the variables and parameters, the conditional distribution function for  $F(X|Y^\star)$  has the conditional mean

$$E(X | Y^*) = \overline{X} + \rho \left( \frac{\sigma_x}{\sigma_y} \right) (Y^* - \overline{Y}) , \qquad (21)$$

conditional variance

$$\sigma^2(\mathbf{x}|\mathbf{y}^*) = \sigma_{\mathbf{x}}^2 (1 - \sigma^2)$$
, (22)

and conditional standard deviation

$$\sigma_{(\mathbf{x}|\mathbf{y}^*)} = \sigma_{\mathbf{x}} \sqrt{1-z^2} . \qquad (23)$$

The preceding conditional probability distribution functions are univariate normal distributions for a (fixed) given value for one of the bivariate normal variables. Thus, the t-values given in table B are applicable for conditional probability statements. For example,

$$F(Y|X^*) = E(Y|X^*) + to_{(Y|X^*)}$$
 (24)

For t = 1.6449 there is a 95 percent chance that Y is less than or equal to  $\overline{Y}$  + 1.6449  $\sigma_{(y|x^*)}$  given that X = X\*. In symbols this statement reads

$$P\left\{Y \leq E(Y|X^*) + 1.6449 \ \sigma_{(y|x^*)} \ | X = X^* \right\} = 0.9500$$
 (25)

Interval probability statements can also be made; namely,

$$P \left\{ Y_1 = E(Y | X^*) - tc_{(y | X^*)} \le Y \le Y_2 = E(Y | X^*) + tc_y | X = X^* \right\}$$

where X\* can take on any fixed value of X, but a convenient arrangement is to let X\* =  $\overline{X}$  :  $t\sigma_x$ .

The close connection of the regression function of Y on X to the conditional mean for the bivariate normal distribution is noted; namely,

$$\mathbf{Y} = \overline{\mathbf{Y}} + i \left(\frac{\sigma_{\mathbf{y}}}{\sigma_{\mathbf{x}}}\right) \left(\mathbf{X} - \widetilde{\mathbf{X}}\right) \qquad . \tag{26}$$

Similarly, the regression function of X on Y is

$$X = \bar{X} + \left(\frac{\sigma_y}{\sigma_x}\right) (Y - \bar{Y}) \qquad (27)$$

These are linear functions and express the same results as would be obtained from a least-squares regression line.

## C.3.2. The Generalized Rayleigh Distribution for Windspeed

If two random variables, X and Y, are bivariate normally distributed, then the probability distribution for the modulus, R, can be derived in terms of the five parameters that define the bivariate normal distribution.

$$R = \sqrt{X^2 + Y^2} \tag{28}$$

The distribution of R so derived is called a generalized Rayleigh distribution because there are no restrictions on the parameters. For applications to the RRA, the variable R is recognized as windspeed or the modulus of the wind vector.

The probability density function for R is expressed as

$$f(R) = a_0 R e^{-a_1 R^2} \left[ I_0(a_2 R^2) I_0(a_3 R) + 2 \sum_{k=1}^{\infty} I_k(a_2 R^2) I_{2k}(a_3 R) \cos 2k \phi \right] R = 0 .$$
 (29)

The functions  $I_0(\cdot)$ ,  $I_k(\cdot)$ , and  $I_{2k}(\cdot)$  are the modified Bessel functions of the first kind for zero order, kth order, and 2kth order. The coefficients are

$$\mathbf{a_0} = \exp \left[ -\frac{1}{2} \left\{ \frac{\overline{\mathbf{X}}^2}{\sigma_{\mathbf{a}}^2} + \frac{\overline{\mathbf{Y}}^2}{\sigma_{\mathbf{b}}^2} \right\} \right] / \frac{1}{\mathbf{a} \cdot \mathbf{b}}$$

where  $\sigma_a^{\ 2}$  and  $\sigma_b^{\ 2}$  are the rotated variances to produce zero correlation between X and Y.  $\sigma_a$  and  $\sigma_b$  are the positive and negative roots  $\sigma_b^{\ 2}$  of the expression

$$y_{(+,-)}^{2} = \frac{1}{2} \left\{ z_{\mathbf{x}}^{2} + z_{\mathbf{y}}^{2} \pm \left[ (z_{\mathbf{x}}^{2} + z_{\mathbf{y}}^{2})^{2} - 4z_{\mathbf{x}}^{2} z_{\mathbf{y}}^{2} (1 - z_{\mathbf{y}}^{2}) \right]^{1/2} \right\},$$

$$a_{1} = (z_{\mathbf{x}}^{2} + z_{\mathbf{y}}^{2})/4(1 - z_{\mathbf{y}}^{2}) z_{\mathbf{x}}^{2} z_{\mathbf{y}}^{2},$$

$$a_{2} = \frac{\left[ (z_{\mathbf{x}}^{2} - z_{\mathbf{y}}^{2})^{2} + 4z_{\mathbf{y}}^{2} z_{\mathbf{y}}^{2} \right]^{1/2}}{4(1 - z_{\mathbf{y}}^{2}) z_{\mathbf{y}}^{2} z_{\mathbf{y}}^{2}},$$

$$a_3 = \left[ \left( \frac{\bar{X}}{\sigma_a^2} \right)^2 + \left( \frac{\bar{Y}}{\sigma_b^2} \right)^2 \right]^{1/2} ,$$

1. This computational form is obtained from the aeterminant

$$\begin{bmatrix} \sigma_{\mathbf{x}}^{2} - \mathbf{K} & \sigma_{\mathbf{x}} \sigma_{\mathbf{y}} \\ \\ \sigma_{\mathbf{x}} \sigma_{\mathbf{y}} & \sigma_{\mathbf{y}}^{2} - \mathbf{K} \end{bmatrix},$$

where K is  $\sigma^2_{(+,-)}$ , and  $\sigma_a$  and  $\sigma_b$  are analogous to the standard deviation of the major and minor axes of the bivariate normal probability ellipse.

and

$$\tan x = \frac{\overline{Y}}{\overline{X}} - \frac{\frac{2}{a}}{\frac{2}{b}} .$$

Since this density function cannot be integrated in closed form from zero to R, numerical integration is used to obtain practical results for the probability distribution function; i.e.,

$$F(R) = \int_{0}^{R*} f(R) dR . \qquad (30)$$

A number of special cases can be obtained from the general Rayleigh distribution [equation (29)], the simplest of which is to let  $\frac{\sigma}{x} = \frac{\sigma}{y} = \sigma$  and  $\overline{x} = \overline{y} = 0$  with independent variables X and Y. This gives

$$f(R) = \frac{R}{z^2} e^{-R^2/2z^2}$$
, (31)

which is recognized as the classical Rayleigh probability density function. The density function, equation (31), can be integrated in closed form over any range of the variable R. Hence, the probability distribution function, F(R), for equation (31) is

$$F(R) = 1 - \exp\left\{\frac{-R^2}{2\sigma^2}\right\} . \tag{32}$$

#### C.3.3. The Derived Distribution of Wind Direction

Considering the wind as a vector quantity and bivariate normally distributed, the wind direction can be derived. This is done by first writing the bivariate normal probability density function in polar coordinates whose variables are

$$g(r, \cdot) = rd_1 e^{\frac{1}{2}(a^2r^2 - 2br + c^2)},$$
 (33)

where

$$a^{2} = \frac{1}{(1 - \frac{1}{2})} \left[ \frac{\sin^{2}{x}}{\sigma_{x}^{2}} - \frac{2\rho \cos \theta \sin \theta}{\sigma_{x}^{2}y} + \frac{\cos^{2} \theta}{\sigma_{y}^{2}} \right] ,$$

$$b = \frac{-1}{(1 - \frac{1}{2})} \left[ \frac{\overline{x} \sin \theta}{\sigma_{x}^{2}} - \frac{\rho(\overline{x} \cos \theta + \overline{y} \sin \theta)}{\sigma_{x}^{2}y} + \frac{\overline{y} \cos \theta}{\sigma_{y}^{2}} \right] ,$$

$$e^{2} = \frac{1}{(1 - \frac{1}{2})} \left[ \frac{\overline{x}^{2}}{\sigma_{x}^{2}} - \frac{2\rho \overline{x} \overline{y}}{\sigma_{y}^{2}} + \frac{\overline{y}^{2}}{\sigma_{y}^{2}} \right] ,$$

$$d_{1} = \frac{1}{2 \cos_{x}^{2} \sigma_{y}^{2}} / \frac{1 - \frac{1}{2}}{\sigma_{x}^{2}} ,$$

 $r=\sqrt{x^2+y^2}$  is the modulus of the vector or speed, and  $\theta$  is the direction of the vector. After integrating  $g(r,\theta)$  over r=0 to  $\alpha$ , the probability density function of  $\theta$  is

$$g(\theta) = \frac{d_1}{a^2} e^{-\frac{1}{2}e^2} \left[ 1 + \sqrt{2^{-}\left(\frac{b}{a}\right)} e^{\frac{1}{2}\left(\frac{b}{a}\right)^2} + \left(\frac{b}{a}\right) \right] , \qquad (34)$$

<sup>2.</sup> This expression, equation (33), in Smith 1976) is given with respect to the mathematical convention for a vector direction.

where a2, b, c2, and d<sub>1</sub> are as previously defined in equation (33) and

$$\psi\left(\frac{b}{a}\right) = \psi(x) = \frac{1}{\sqrt{2\pi}} \int_{-a}^{x} e^{-\frac{1}{2}t^{2}} dt$$

is taken from tables of normal distribution functions or made available through a computer subroutine.

If desired, equation (34) can be integrated numerically over a chosen range of  $\theta$  to obtain the probability that the vector direction will lie within the chosen range; i.e.,

$$\mathbf{F}(\theta) = \int_{\theta_2}^{\theta_1} \mathbf{g}(\theta) d\theta \qquad . \tag{35}$$

One application may be to obtain the probability that the wind will flow from a given quadrant or sector as, for example, onshore.

C.3.4. The Derived Conditional Distribution of Windspeed Given the Wind Direction (Wind Rose)

Continuing with the considerations in section C.3.3. of this chapter, the conditional probability density function (pdf) for windspeed, r, given a specified value for the wind direction,  $\theta$ , can be expressed as

$$f(r|\theta) = \frac{a^2 r e^{-\frac{1}{2} (a^2 r^2 - br)}}{1 + \sqrt{2\pi} \left(\frac{b}{a}\right) e^{\frac{1}{2} \left(\frac{b}{a}\right)^2} + \left\{\frac{b}{a}\right\}}$$
(36)

where the coefficients, <u>a</u> and <u>b</u> and the function  $\Phi$   $\left\{\frac{b}{a}\right\}$  are as previously defined in equation (33) and in equation (34).

From equation (36) the mode (most frequent value) of the conditional windspeed given a specified value of the wind direction is the positive solution of the quadratic equation,

$$a^2 r^2 - br - 1 = 0$$
 , (37)

which is

$$(\tilde{\mathbf{r}}\mid\theta) = \frac{1}{2a}\left[\left(\frac{\mathbf{b}}{a}\right) + \sqrt{4 + \left(\frac{\mathbf{b}}{a}\right)^2}\right]$$
 (38)

The locus of the conditional modal values of windspeed when plotted in polar form versus the given wind directions forms an ellipse.

The noncentral moment for equation (36) is expressed as

$$\mu_{\mathbf{n}}' = \int_{0}^{\infty} \mathbf{r}^{\mathbf{n}} f(\mathbf{r} | \theta) d\mathbf{r} . \qquad (39)$$

Now the first noncentral moment is identical to the first central moment or the expected value, E  $(r|\theta)$ . The integration of equation (39) for the first moment is sufficiently simple to yield practical computations and can be expressed as

$$E(\mathbf{r}|\theta) = \frac{\left(\frac{\mathbf{b}}{\mathbf{a}}\right) + \left[1 + \left(\frac{\mathbf{b}}{\mathbf{a}}\right)^{2}\right] \sqrt{2\pi} e^{\frac{1}{2}\left(\frac{\mathbf{b}}{\mathbf{a}}\right)^{2}} \Phi\left\{\frac{\mathbf{b}}{\mathbf{a}}\right\}}{\mathbf{a}\left[1 + \left(\frac{\mathbf{b}}{\mathbf{a}}\right) \sqrt{2\pi} e^{\frac{1}{2}\left(\frac{\mathbf{b}}{\mathbf{a}}\right)^{2}} \Phi\left\{\frac{\mathbf{b}}{\mathbf{a}}\right\}\right]}.$$
 (40)

Hence, equation (40) gives the conditional mean value of the windspeed given a specified value for the wind direction.

The integration of equation (36) for the limits r=0 to  $r=r^*$  gives the probability that the conditional windspeed is  $\leq r^*$  given a value for the wind direction,  $\theta$ . This conditional probability distribution (PDF) can be written as

$$\Pr\left\{\mathbf{r} \leq \mathbf{r}^* \mid \theta = \theta_{c}\right\} = 1 - \left[\frac{e^{-\frac{1}{2}\mathbf{r}_{S}^2 + \sqrt{2\pi}\left(\frac{b}{a}\right)\left\{1 - \phi\left(\mathbf{r}_{S}\right)\right\}}}{e^{-\frac{1}{2}\left(\frac{b}{a}\right)^2 + \sqrt{2\pi}\left(\frac{b}{a}\right)\left\{\frac{b}{a}\right\}}}\right], \quad (41)$$

where 
$$r_s = \left[ a r^* - \left( \frac{b}{a} \right) \right]$$

By definition, equation (41) is an expression for a "wind rose." Empirical wind rose statistics are often tabulated or graphically illustrated giving the frequency that the windspeed is not exceeded for those windspeed values that lie within assigned class intervals of the wind direction. After evaluation of equation (41) for various values of windspeed,  $r^*$ , and the given wind directions,  $\theta$ , interpolations can be performed to obtain various percentile values of the conditional windspeed.

For the special case when <u>b</u> in equation (33) equals zero (i.e., for  $x \neq y = 0$ ), the conditional modal values of windspeeds [equation (38)], the conditional mean values of windspeeds [equation (40)], and the fixed conditional percentile values of windspeeds [interpolated from evaluations of equation (41)], when plotted in polar form versus the given wind directions, produce a family of ellipses.

For the special case when  $\bar{x} = \bar{y} = 0$ , equation (36) reduces to the following simple case:

$$\Pr\left\{ \mathbf{r} \le \mathbf{r}^* \mid v = \theta_0 \right\} = 1 - e^{-\frac{\mathbf{a}^2 \mathbf{r}^{*2}}{2}}$$
 (42)

There is a special significance of equation (42) when related to the bivariate normal probability distribution. If  $r^*$  and  $\theta$  are measured from the centroid of the probability ellipse, then the probability that  $r \le r^*$  is the same as the given probability ellipse. Further, solving equation (42) for  $r^*$ , gives

$$r^* = \frac{1}{a} \sqrt{-2 \ln (1 - P)}$$
 (43)

If a probability ellipse P is chosen, equation (42) gives the distance of r along any  $\theta$  from the centroid of the ellipse to the intercept of the specified probability ellipse. If there is an interest in conditional probability of winds for a given  $\theta$  relative to the monthly means, equation (43) is applicable. If it is desired to find the magnitude of the wind along any  $\theta$  relative to the monthly mean to the intercept of a given probability ellipse, equation (43) is applicable.

#### D. Statistical Parameters With Respect To Any Orthogonal Axes

The five wind statistical parameters presented in table I are given with respect to the standard meteorological coordinate system; i.e., these parameters are for the U and V components. For many aerospace vehicles and range applications, there is a need for wind statistics with respect to orthogonal axes other than west to east and south to north. For example, it may be required to present wind statistics with respect to a flight azimuth of an

aerospace vehicle whose flight azimuth is  $\alpha$  degrees from true north measured in a clockwise direction. The following sets of equations are presented to compute the five parameters for the new coordinate axes rotated  $\alpha$  degrees clockwise from true north.

a. Rotation of the means through  $\alpha$  degrees:

$$\overline{X}_{\mu} = \overline{X} \cos (90 - \alpha) + \overline{Y} \sin (90 - \alpha)$$
 (44)

$$\overline{Y}_{\alpha} = \overline{Y} \cos (90 - \alpha) - \overline{X} \sin (90 - \alpha)$$
 (45)

b. Rotation of the variances through lpha degrees:

$$\sigma_{\mathbf{x}_{\perp}}^{2} = \sigma_{\mathbf{x}}^{2} \cos^{2} (90 - \alpha) + \sigma_{\mathbf{y}}^{2} \sin^{2} (90 - \alpha)$$

$$+ 2\rho\sigma_{\mathbf{x}}\sigma_{\mathbf{y}} \cos (90 - \alpha) \sin (90 - \alpha)$$
(45)

$$\sigma_{\mathbf{y}_{\alpha}}^{2} = \sigma_{\mathbf{y}}^{2} \cos^{2} (90 - \alpha) + \sigma_{\mathbf{x}}^{2} \sin^{2} (90 - \alpha)$$

$$- 2 \omega_{\mathbf{x}}^{2} \sigma_{\mathbf{y}}^{2} \cos (90 - \alpha) \sin (90 - \alpha) . \tag{47}$$

c. Rotation of the linear correlation coefficient through  $\boldsymbol{\alpha}$  degrees:

$$\rho_{\alpha} = \frac{\text{cov} (X,Y)_{\alpha}}{{}^{\sigma}\mathbf{y}_{\alpha}} , \qquad (48)$$

where cov  $(\mathbf{X},\mathbf{Y})_{\alpha}$  is the rotated covariance,

$$cov(X,Y)_{\alpha} = cov(X,Y) [cos^{2}(90 - \alpha) - sin^{2}(90 - \alpha)]$$
  
+  $cos(90 - \alpha) sin(90 - \alpha)(\sigma_{v}^{2} - \sigma_{x}^{2})$ 

and

$$cov(X,Y) = \rho \sigma_{x} \sigma_{y}$$
.

By using these rotational equations, the bivariate normal distribution with respect to any desired rotated coordinates can be obtained from sample estimates that have been computed with respect to a specific axis. The marginal distributions after rotation are also normally (univariate) distributed. Using the rotational equations greatly reduces computational efforts for applications requiring statistics with respect to several coordinate axes.

Appendix A presents some illustrative examples for the wind statistics of the specific RRA.

# CHAPTER III. STATISTICS OF THERMODYNAMICS QUANTITIES AND MODELS

#### A. General Considerations

## A.1. Objectives

The objective inherent in developing the thermodynamic section of the RRA was to describe the thermodynamic characteristics of the atmosphere using a minimum of data tabulations. A set of parameters was selected which, together, thermodynamically describe the climatological state of the atmosphere. These parameters are the pressure, temperature, density, dewpoint, virtual temperature, and water vapor pressure. Used together, these parameters permit the calculation of a large number of derived quantities. (Symbols used in the calculations in this chapter are summarized in table D.) Some of these quantities, such as the speed of sound, are dealt with in section III.E.

The probability distribution of each of the six thermodynamic RRA parameters is described by its mean value, its standard deviation, and its skewness. Several of these parameters (temperature, pressure, dewpoint and density) have probability distributions that are close to a univariate normal distribution; the others do not. The skewness parameter gives an estimate of the asymmetrical departures of a probability distribution.

Hydrostatically modeled mean values of pressure and density were calculated (table IV), so that users may determine the departure of the actual climatological values of these parameters from hydrostatic conditions. This was done by hydrostatically integrating the pressure from the lowest RRA data level to the termination altitude of the particular RRA.

## A.2. Data Quality Control

Data limits derived from the following parameters were used to screen the thermodynamic portion of the RRA data base: temperature, pressure, dewpoint (for the 0- to 30-km portion only), and density (for the 30- to 70-km portion only). These limits were set to plus and minus six standard deviations from the mean values of each of these quantities. These limits were used to screen the thermodynamic portion of the RRA data base, according to the procedures described in section I.C. The data base used to generate the thermodynamic portion of the RRA (tables I, II, and IV) was considered to be free from errors under the following conditions:

- a) The skewness values of the pressure and temperature were between -2.5 and 2.5 at all data levels.
- b) The skewness values of the density were between -3.5 and 3.5 at data levels between 0 and 30 km.
- c) The skewness values of the density were between -3.0 and 3.0 at data levels between 30 and 70 km.
- d) The skewness values of the dewpoint were between -2.5 and 2.5 at all data levels with more than 10 data values.

#### TABLE D. LIST OF SYMBOLS USED IN CHAPTER III

 $C_{s}$  - Speed of sound

 $C_{\partial}$  - Collision diameter

E - Vapor pressure

 $g_{\pm}$  - Gravity at latitude  $\phi$ 

H - Geopotential height

 $H_{m}^{-}$  - Geopotential height at a mandatory radiosonde data level

 ${
m H_S}$  - Geopotential height at a significant radiosonde data level

 $K_t$  - Coefficient of thermal conductivity

L - Mean free path length

M - Mean molecular weight of air at sea level

M3Q - Annual or monthly third moment of quantity Q

n Refractive modulus

N - Refractive index

NA - Avogadro's constant

 $N_{\mathbf{Q}}$  Number of values of quantity Q

P - Pressure

 $P_{m}$  - Pressure at a mandatory radiosonde data level

 $P_{e}$  - Pressure at a significant radiosonde data level

 $\boldsymbol{P}_{\mathbf{h}}$  . - Hydrostatically integrated mean monthly or annual pressure

Q - Any tabulated RRA quantity

R\* - Universal gas constant

R' - Specific gas constant of dry air

r', r\* - Parameters used in converting z to h and vice versa

# TABLE D. (concluded)

- Sutherland's constant, used in the calculation of dynamic

	viscosity
Т	Temperature
$^{\mathrm{T}}\mathrm{d}$	- Dew point
$T_{v}$	- Virtual temperature
$T_{\rm vm}$	Virtual temperature at a mandatory radiosonde data level
$T_{vs}$	Virtual temperature at a significant radiosonde data level
V	Mean air particle speed
$v_e$	Mean collision frequency
W	Parameter used in the hydrostatic interpolation of pressure and density
Z	Geometric altitude
	Wavelength
Q	Skewness of quantity $Q$
	Constant used in the equation for viscosity
	Ratio of specific heat at constant pressure to specific heat at constant volume
	Kinematic coefficient of viscosity
	Dynamic coefficient of viscosity
	Density
h	Mean monthly or annual density derived from pressure height
	Standard deviation of the quantity Q

#### A.3. Limitation of Thermodynamic Statistics

The correlation coefficients between the thermodynamic quantities and the moisture-related quantities were not calculated at discrete altitudes, nor were any of the correlations between altitudes. Therefore, valid statistical dispersion models that require the relationship between two or more of these quantities at the same altitude or betwe∈n altitudes cannot be derived. Approximations for the correlation coefficients between pressure, virtual temperature, and density at discrete altitudes may be obtained from the coefficients of variation as developed by Buell (1970). The coefficient of variation is the standard deviation divided by the mean. The mean values and the standard deviations are taken from table II. A model for the profile of monthly and annual mean pressure, virtual temperature, and density that is in excellent agreement with the respective statistical mean values is given by table IV. This agreement results because the physical relationships, given by the hydrostatic equation and the equation of state, were used to derive table IV. When only the monthly or annual mean values for pressure, virtual temperature, and density are required, it is recommended that table IV be used.

## B. Establishing Data Samples at the Required Altitude Levels

This section describes the computational procedures used to establish data samples of the thermodynamic RRA parameters at the RRA data levels. References are cited only when an equation given is one of many available in the literature or when an equation is stated in an unusual form.

## B.1. Conversion of Data Recorded in Geopotential Heights to Geometric Altitude

The upper air rocketsonde observations used to obtain the table values above 30 km were recorded in terms of geometric altitude and can be interpolated directly to the altitude intervals shown in the tables. However, the radiosonde observations used to obtain the tabular values below 30 km were recorded in terms of geopotential heights. The change of coordinates from geopotential heights to geometric altitudes (h to z) is accomplished by calculating a table of geopotential heights that correspond exactly to the geometric altitudes at which the atmospheric parameters are tabulated. The radiosonde observations are then interpolated to these geopotential heights. The relationship used to calculate geometric altitude from geopotential height is

$$H = (r'z)/(r*z)$$
 , (49)

where

$$r' = gr*/9.80665$$

and

$$\mathbf{r}^* = -2\mathbf{g}_{\downarrow}/(-\mathbf{g}_{\downarrow}/3\mathbf{z_0})$$

 $g_{\varphi}$  is the sea-level gravity at the latitude  $\varphi$  corresponding to the proper location. This value is given by (List, 1968)

$$g_{\perp} = 9.780356 \ (1 + 5.2885 + 10^{-3} \sin^2 z - 5.9 + 10^{-6} \sin^2 (2z)).$$
 (50)

 $\frac{\partial g_{\varphi}}{\partial z_{\varphi}}$  is the rate of change of gravity at the sea level. This quantity is given

by the equation

$$\frac{\frac{19}{2}}{\frac{2}{9}} = -3.085462 \times 10^{-6} + 2.27 \times 10^{-9} \cos((2z)) - 2 \times 10^{-12} \cos((4z)).$$
 (51)

The units used for gravity are meters per square second, while the units for

$$\frac{\partial g_{\varphi}}{\partial z_{\varphi}}$$
 are per square second.

The resulting table of values of H obtained by using even increments of 2 in equation (49) is shown in table IV of the RRA. The values of H above 30 km are not used in the interpolation of original data, but are included for the convenience of the user.

## B.2. Calculations on the Original Rawinsonde Data Records

It was necessary to interpolate the information from the original rawinsonde data records to the geometric altitudes specified as the RRA data levels. The parameters for which this interpolation was required were the temperature, dewpoint, and pressure. The other parameters were calculated from the interpolated values at each RRA data level. These "derived" parameters were the water vapor pressure, density, and virtual temperature.

#### B.2.1. Calculation of the Geopotential Height at Significant Levels

Two somewhat different interpolation procedures were used to obtain data from radiosonde and rocketsonde observations at the levels shown in the tables. The procedure used to interpolate radiosonde observations began with the calculation of virtual temperature at each data level in a sounding. The virtual temperature was computed by

$$\Gamma_{\rm v} = T/(1. - 0.379 \, (e/p))$$
 , (52)

where  $T_{_{\boldsymbol{V}}}$  and T are in degrees Kelvin and  $\boldsymbol{e}$  and  $\boldsymbol{p}$  are in millibars.

The radiosonde soundings contain a mix of data taken at "mandatory" and "significant" levels. Pressure, temperature, and dewpoint information was given in these soundings at both types of levels. However, geopotential height information was only given at the mandatory levels. The heights at the significant levels were "filled in" (calculated) hydrostatically using pressure and temperature data from these levels. This procedure permitted the use of most of the significant level data in the calculation of the RRA tables. The equation used for this process was

$$H_s = H_m + 29.2712617 \frac{(T_{vs} - T_{vm})}{2} \ln(P_s/P_m)$$
, (53)

where the subscripts s and m denote quantities at significant and mandatory levels. This equation was not used if the difference between two adjacent mandatory levels was greater than 200 mb. All soundings with such data gaps were rejected for use in compiling the RRA.

#### B.2.2. Temperature

Radiosonde temperatures were interpolated logarithmically with respect to pressure using the equation

$$T = T_{U} + (T_{L} - T_{U}) \frac{\ln p - \ln p_{L}}{\ln p_{U} - \ln p_{L}} , \qquad (54)$$

where the subscripts U and L indicate values at the nearest data levels in the actual sounding above and below the interpolated level.

## B.2.3. Pressure

The pressure values in each radiosonde sounding were interpolated to the RRA data levels using the equation

$$p = p_{L} exp\left(\frac{H_{L} - H_{U}}{29.2712617 (0.5) (T_{V_{U}} + T_{V_{L}})}\right)$$
(55)

where the subscript L indicates virtual temperature, geopotential height, and pressure values at the data level below and closest to the level at which data were required.

#### B.2.4. Dewpoint Temperature

Dewpoint values were interpolated logarithmically with respect to pressure using the equation

$$T_{d} = T_{dU} + (T_{dL} - T_{dU}) \left( \frac{\ln p - \ln p_{L}}{\ln p_{U} - \ln p_{L}} \right) . \tag{56}$$

The subscripts U and L indicate data at the nearest upper and lower data levels in a sounding.

#### B.2.5. Derived Water Vapor Pressure

The water vapor pressure was calculated from the interpolated dewpoint values at the RRA data levels using Teten's approximation:

$$7.5(T_d - 273.15)/(T_d - 35.86)$$
  
e = 6.11 mb × 10 . (57)

#### B.2.6. Derived Density

The density values derived from radiosonde observations were calculated at the RRA data levels using the equation

$$p = 348.36787 \text{ p/T}_{V}$$
 (58)

#### B.2.7. Derived Virtual Temperature

The virtual temperature values were calculated at the RRA data levels for each sounding using the equation

$$T_{V} = T/(1 - 0.379(e/p))$$
 (59)

where  $T_{v}$  and T are in degrees Kelvin, and p and e are the pressure and vapor pressure, respectively, in millibars.

#### B.3. Calculations on the Original Rocketsonde Data Records

The rocketsonde data records used to calculate the RRA table values above 30 km were given in terms of geometric altitude. For this reason, slightly different calculations were required to convert the recorded data values to values at the RRA data levels. The pressure, temperature, and density were all interpolated to the RRA data levels; moisture-related parameters (virtual temperature, water vapor pressure, and dewpoint) were not calculated, since atmospheric moisture at altitudes above 30 km was considered to be negligible.

No interpolation was done across gaps in the pressure or temperature data within a sounding larger than 7,000 m. Data values at the RRA levels within such a gap were set to missing.

#### B.3.1. Temperature

Rocketsonde temperatures were interpolated linearly with respect to geometric altitude using the equation

$$T = T_U + (T_L - T_U) \frac{Z - Z_L}{Z_U - Z_L}$$
, (60)

where the subscripts U and L indicate values at the nearest data level in the actual sounding above and below the interpolated level.

#### B.3.2. Pressure

The pressure values in each rocketsonde sounding were interpolated to the RRA data levels using the equation

$$P = P_{L} \exp \left(-\frac{g_{\phi}}{R^{*}} \frac{M(Z - Z_{L})}{\overline{T}v} \cdot W^{2}\right) , \qquad (61)$$

where 
$$\overline{T}_{\mathbf{V}} = \frac{T_{\mathbf{V}} \underline{\mathbf{U}} + T_{\mathbf{V}}}{2} \underline{\mathbf{I}}$$
 and  $\mathbf{W} = \frac{\mathbf{r}^*}{\left(\mathbf{r}^* + \mathbf{Z} + \frac{\mathbf{Z} - \mathbf{Z}_{\underline{\mathbf{I}}}}{2}\right)}$ .

## B.3.3. Density

Rocketsonde density values were interpolated using the equation

$$\rho = \rho_{\mathbf{L}} \exp \left( -\frac{\mathbf{g}_{\phi}^{\mathbf{M}}}{\mathbf{R}^{*}} \frac{(\mathbf{Z} - \mathbf{Z}_{\mathbf{L}})}{\overline{\mathbf{T}_{\mathbf{V}}}} \cdot \mathbf{W}^{2} \right) , \qquad (62)$$

where W is specified in section III.B.3.2.

#### C. Computation of Statistical Parameters for Tables II and III

A three-step procedure was used for computing the monthly and annual means, standard deviations, and skewness values from the data values at the RRA data levels. Initially, certain statistical sums were calculated and stored as the soundings in the data base were processed. These sums were then used to calculate the monthly statistics given in the RRA tables. The annual statistics were then calculated from these stored sums and the monthly statistics.

#### C.1. Stored Statistical Sums

The sums calculated were

$$\sum\!Q\,,~\sum\!Q^2,~\text{and}~\sum\!Q^3$$
 ,

where Q is any one of the quantities given in the thermodynamic part of the RRA.

## C.2. Calculation of the Monthly Statistics

## C.2.1. Monthly Means

The mean monthly values of the thermodynamic RRA quantities were calculated using the equation

$$\bar{\mathbf{Q}} = \sum_{\mathbf{Q}} \mathbf{N}_{\mathbf{Q}}$$

where  $N_{\overline{Q}}$  is the number of observed values of the quantity  ${\bf Q}$  for a given month.

## C.2.2. Monthly Standard Deviations

$$V_{Q} = \sqrt{\frac{(N_{Q}\Sigma'Q^{2}) - (\Sigma Q)^{2}}{N_{Q} \cdot (N_{Q} - 1)}} .$$
 (63)

## C.2.3. Monthly Skewness Values

The monthly skewness values of the windspeed and of the thermodynamic RRA quantities were calculated using the equation

$$A_{\mathbf{Q}} = \frac{\mathbf{M}^{3}_{\mathbf{Q}}}{\mathbf{Q}^{3}} \quad ,$$

where  $\rm M3_Q$  is the third moment of the quantity Q,  $\sigma_{\rm Q}$  is its standard deviation, and

$$M_{3Q} = \left[ \frac{\Sigma_{Q}^{3}}{N_{Q}} - \frac{3\Sigma_{Q}\Sigma_{Q}^{2}}{N_{Q}^{2}} - \frac{2\Sigma_{Q}^{3}}{N_{Q}^{3}} \right] \cdot \frac{N_{Q}^{2}}{(N_{Q} - 1)(N_{Q} - 2)}$$
(64)

#### C.3. Calculation of the Annual Statistics

Equations (63) and (64), used to calculate the monthly values of the standard deviations and skewness values, involve taking the differences between two pairs of large sums containing  $Q^2$  and  $Q^3$ , where Q is any thermodynamic RRA quantity. Using these equations to compute the annual statistics would have resulted in a substantial loss of precision, as these sums become larger by several orders of magnitude in such a case. This problem was avoided by calculating the annual means, standard deviations, and skewness values from the monthly statistics.

#### C.3.1 Annual Mean Values

The annual mean values of the thermodynamic RRA quantities were calculated using the equation

$$Q_{ANN} = Q_A/N_Q$$

where  $\mathbf{Q}_{A}$  is the total of all observed values of Q and  $\mathbf{N}_{Q}$  is the total number of observations of Q.

#### C.3.2. Annual Standard Deviations

The annual standard deviations of the thermodynamic RRA quantities were calculated using the equation

$$Q_{ANN} = \sqrt{\frac{1}{N_{Q}} \sum_{i=1}^{12} (N_{Qi} Q_{i}^{2}) + \frac{1}{N_{Q}} \sum_{i=1}^{12} (N_{Qi} \overline{Q}_{i}^{2}) - Q_{ANN}^{2} } , (65)$$

where N $_{\rm Q\,i}$  = the number of data values for Q in month i (i = 1 to 12), Q $_{\rm i}$  = the monthly mean of Q, and  $\sigma_{\rm Q\,i}$  = the standard deviation of quantity Q in month i.

#### C.3.3. Annual Skewness Values

The annual skewness values of the thermodynamic RRA quantities were calculated using the equation  $\frac{1}{2}$ 

$$M3Q_{ANN} = \frac{1}{N} \sum_{i=1}^{12} (N_{Qi} M_{3Qi}) + \frac{3}{NQ_{ANN}} \sum_{i=1}^{12} (N_{Qi} \bar{Q}_i)^2$$

+ 
$$\frac{1}{NQ_{ANN}} \sum_{i=1}^{12} (N_{Qi} Q_i^3) - \frac{3\bar{Q}_{ANN}}{NQ_{ANN}} \sum_{i=1}^{12} (N_{Qi} Q_i^2)$$

$$-\frac{3\bar{Q}_{ANN}}{NQ_{ANN}}\sum_{i=1}^{12}(N_{Qi} \partial_{Qi}^{2}) + 2\bar{Q}_{ANN}^{3}, \qquad (66)$$

where  $\rm M_{3Qi}$  = the third moment about the mean of quantity Q in month i and  $\rm M3Q_{ANN}$  = the annual third moment about the mean of the quantity Q.

## D. Derived Monthly Mean and Annual Mean Model Atmospheres

A set of modeled monthly mean and annual mean hydrostatic values of pressure and density was calculated from the lowest RRA data level (0 km, mean sea level) upwards to 30 km, and from 30 km upwards to 70 km. The integration from 0 to 30 km was computed independently of the integration from 30 to 70 km because of the difference in data sources. The two different values for 30 km are provided for comparison. When 30-km data are required, the values given in the 0- to 30-km table should be used. These hydrostatically modeled mean values, which are given in table IV, are useful as a check on the validity of the pressure and density values given in table II. In most cases, the values in tables II and IV for any given data level are within 1 percent of each other. The hydrostatic pressure values in table IV were calculated using the equation

$$p_1 = p_0 \exp \left( -\frac{0.034162 (H_1 - H_0)}{0.5 (T_{v_1} + T_{v_0})} \right) . \tag{67}$$

where  ${\rm H_1}$  -  ${\rm H_0}$  is in meters and a "0" subscript refers to values at the RRA data level immediately below the level being checked.  ${\rm p_0}$  at the lowest data level is set equal to the RRA mean pressure;  ${\rm p_1}$ , calculated for the next highest data level, is taken as  ${\rm p_0}$  for the level above that. This process is repeated for all the other RRA data levels. The hydrostatic density corresponding to the hydrostatic pressures is calculated from these pressures and the RRA virtual temperature values using the formula

$$V_{\rm H} = 348.36786 \ P_{\rm H}/T_{\rm V}$$
 (68)

where  $\rho_{H}$  and  $P_{H}$  are the hydrostatic density and pressure shown in table IV of the RRA.

#### E. Thermodynamic Quantities Derivable from the Basic Tables

Several other quantities can be calculated from the statistics listed in tables I and II. Primary physical constants used in these calculations are listed in table E. The equations given in this section can be used to calculate the approximate mean values of these quantities at each RRA data level. It is not possible to infer or derive any information concerning the standard deviation or skewness values of these quantities from the data in tables II and III of the RRA.

#### E.l. Mean Air Particle Speed

The mean air particle speed, V, is the arithmetic average of the speeds of all air particles in the volume element being considered. For a valid average to occur, there must be a sufficient number of particles involved to represent mean conditions. The equation for V for dry air is

$$V = \sqrt{\frac{8}{\pi} \cdot \frac{R*T}{M}} \quad . \tag{69}$$

A computational form for dry air, using tabulated values, is

$$V = \sqrt{7.3094 \times 10^2 \times T} \text{ (meters per second)}, \qquad (70)$$

where T is the temperature in degrees Kelvin from table II. Equation (69), when corrected for moist air, becomes

$$V = \sqrt{\frac{8}{r} \cdot R' T_V} . \qquad (71)$$

The computational form for moist air is

$$V = \sqrt{7.3094 \cdot 10^2 \cdot T_V} \text{ (meters per second)}, \qquad (72)$$

where  $T_{_{\boldsymbol{V}}}$  is the virtual temperature in degrees Kelvin from table III.

## TABLE E. LIST OF PRIMARY PHYSICAL CONSTANTS

- $P_0 = standard$  atmospheric pressure at sea level  $= 1.013250 \times 10^5 \text{ Newton/m}^2 = 2116.22 \text{ lb/ft}^2$
- . standard atmospheric density at sea level
  - $-1.2250 \text{ kg/m}^3 = 0.076474 \text{ lb/ft}^3$
- $T_{\Omega}$  = standard temperature at sea level = 288.15 K = 15.0°C = 59.0°F
- $g_{o}^{-}$  standard gravity at sea level at latitude 45°32'33"
  - $= 9.80665 \text{ m/s}^2$
- = Sutherland's constant used in calculation of dynamic viscosity
- $T_1$  ice-point temperature at  $P_0 = 273.15 \text{ K}$
- constant used in calculation of dynamic viscosity
  - =  $1.458 \times 10^{-6} \text{ kg/s m K}^{\frac{1}{2}}$
  - =  $7.3025 \times 10^{-7}$  lb/s ft  $R^{\frac{1}{2}}$
- ratio of specific heat of air at constant pressure to specific heat of air at constant volume
- $C_D$  = mean effective collision diameter of air molecules =  $3.65 \times 10^{-10}$  m =  $1.1975 \times 10^{-9}$  ft
- $N_a$  = Avogadro's constant = 6.022169  $\times$  10<sup>26</sup>/kg mol = 2.73179  $\times$  10<sup>26</sup>/lb mol
- $R^* = gas\ constant = 8.31432\ J/mol\ K$
- R' = gas constant for dry air = 2.8704 × 10<sup>2</sup> J/kg K
- = molecular weight of dry air = 28.966 g/mol

#### E.2. Mean Free Path

The mean free path, L, is the mean value of the distance traveled by each neutral air particle in a selected air parcel, between successive collisions with other particles in that parcel. A meaningful average requires that the selected parcel be large enough to contain a substantial number of particles. The equation for L is given by

$$L = \left(\frac{\sqrt{2}}{2\pi}\right) \left(\frac{R*T}{N_a C_d^2 P}\right) , \qquad (73)$$

where  $C_{\rm d}$  is the effective collision diameter of the mean air molecules. The 1976 standard atmosphere value of 3.65 x  $10^{-10}$  is valid for the range of altitudes in the RRA.

A computational form for moist air, using tabulated values, is

$$L = 2.335 \times 10^{-7} \frac{T}{P} \text{ (meters)}$$
 , (74)

where T is the temperature in degrees Kelvin from table II and P is the pressure in millibars from table II.

A form of (73) to correct L for moist air is

$$L = \left(\frac{\sqrt{2}}{2\pi}\right) \frac{R'MT_{V}}{N_{a} C_{d}^{2}} \qquad (75)$$

The computational form for moist air is

$$L = 2.3325 \times 10^{-7} \frac{T_{v}}{P} \text{ (meters)} , \qquad (76)$$

where  $T_{\rm V}$  is the virtual temperature in degrees Kelvin from table III and P is the pressure in millibars from table II.

## E.3. Mean Collision Frequency

The mean collision frequency,  $\mathbf{V}_{\mathbf{C}}$ , is considered to be the average speed of air particles contained in an air parcel, divided by the mean free path of the particles inside that parcel. Computationally this is equivalent to

$$V_{c} = \frac{V}{L} (sec^{-1}) \qquad (77)$$

To determine  $V_c$  for dry air, use V and L from equations (70) and (74). To determine  $V_c$  for moist air, use V and L from equations (72) and (76).

## E.4. Speed of Sound

The expression for the speed of sound,  $\boldsymbol{c}_{_{\boldsymbol{S}}}$  , in meters per second in dry air, is

$$C_{S} = \sqrt{\frac{R*T}{M}} . (78)$$

To compute  $C_{\rm s}$  for dry air from tabulated values, use

$$C_s = \sqrt{4.0185 + 10^2 + T}$$
 (meters per second) , (79)

where T is the temperature in degrees Kelvin from table II. One form for the speed of sound in moist  $\operatorname{air}$  is

$$C_{S} = \sqrt{\gamma_{R} T_{V}} . \qquad (80)$$

where  $T_{_{\boldsymbol{V}}}$  is the virtual temperature from table III. A computational form for moist air is

$$C_{\rm S} = \sqrt{4.0185 \cdot 10^2 \, T_{\rm V}}$$
 (meters per second) , (81)

#### E.5. Dynamic Coefficient of Viscosity

The coefficient of dynamic viscosity,  $\mu$ , is defined as a coefficient of internal friction developed where gas regions move adjacent to each other at different velocities. The following expression is taken from the U.S. Standard Atmosphere (1976):

$$\frac{T^{3/2}}{T+S} \qquad (82)$$

The computational form is

$$\frac{1}{100} = \frac{(1.458 + 10^{-6}) \text{ T}^{3/2}}{\text{T} + 110.4}$$
 (kilograms per second per meter), (83)

where T is temperature degrees Kelvin from table II.

## E.6. Kinematic Coefficient of Viscosity

The kinematic coefficient of viscosity, designated as n, is defined to be the ratio of the dynamic coefficient of viscosity of a gas to its density, or

$$\cdot = \pi / . \tag{84}$$

The computational form is

where  $\mu$  is the dynamic coefficient of viscosity from equation (83) and  $\mu$  is the density in grams per cubic meter from table II.

## E.7. Coefficient of Thermal Conductivity

The empirical expression used for the coefficient of thermal conductivity, designated as  $K_\pm$ , is given in the 1976 Standard Atmosphere as

$$K_t = \frac{2.65019 \times 10^{-3} \times T^{3/2}}{T + 245.4 \times 10^{-(12/T)}}$$
 (watts per meter per degree Kelvin), (86)

where T is in degrees Kelvin.

#### E.8. Refractive Modulus and Refractive Index

The refractive modulus or refractivity (Selby and McClatchey, 1975; Smith and Weintraub, 1953) is defined as N, where

$$N = (n - 1) \cdot 10^6 \tag{87}$$

and n is the refractive index.

For microwave frequencies below approximately 30 GHz (equivalent to wavelengths above 1 cm), N, the refractive modulus, is given by the empirical equation  $\frac{1}{2}$ 

$$N = 77.6 \frac{P}{T_d} + 3.73 \times 10^5 \frac{e}{T^2}$$
 (dimensionless), (88)

where E and P are in millibars and T and  $\mathrm{T}_{\mathbf{d}}$  are in degrees Kelvin.

The following expression is valid for the visible and infrared wavelengths shorter than approximately 30  $\mu m$  (0.03 mm).

$$N = 77.6 \frac{P}{T} + 0.584 \frac{P}{T}$$
 (dimensionless), (89)

where  $\lambda$  is the wavelength in microns and T is in degrees Kelvin.

The expression for N for the wavelength from  $0.03\ \text{mm}$  to 1 cm is an extremely complex function of wavelength.

#### CHAPTER IV. CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

This document satisfies the technical objectives established for the RRAC by the RCC MG. Upper air statistics and models for wind and thermodynamic quantities for the specific site have been derived in a consistent and uniform manner, which will be used in publications for all other assigned site locations. These RRAs represent an improvement over the previously published RRAs because of the availability of more extensive upper air data bases and the adaptation of more advanced statistical techniques. A statistical measure of central tendency (mean values) and a measure of dispersion (standard deviation with respect to the mean values) for monthly and annual reference periods have been tabulated for all variables in a consistent manner from data bases that have been edited and quality-controlled in the same manner. Further, a statistical measure for symmetry (skewness coefficient that involves the third statistical moment) has been tabulated for all variables except the U and V wind components. Even with these improvements, the user of these RRAs must recognize certain limitations of the statistical tabulations:

- 1) The wind profile structure with respect to altitude cannot be modeled from the RRA statistics because the interlevel and crosslevel correlations were not computed.
- 2) The profile structure with respect to altitude for any of the thermodynamic variables or any quantities derivable from these variables cannot be modeled because the prerequisite correlations were not computed. However, the profiles of monthly and annual means for pressure, virtual temperature, and density are in agreement (table IV) with the hydrostatic equation and the equation of state.

The preceding limitations are cited to prevent a misuse of the RRAs. More extensive statistical tabulations were beyond the scope of this committee's task. As greater insight is gained through usage of these RRAs, many adaptations of the statistical tabulations for specific engineering and scientific applications are envisioned.

#### Recommendations

It is recommended than the wind and thermodynamic statistical tabulations and attendant models contained in the RRAs be used as a standard reference source, as may be appropriate, by the ranges and range users. It is further recommended that the respective Range Staff Meteorologist or responsible agency staff member be consulted for the applicability of the RRAs for specific engineering applications.

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In addition to the documents above and the present RRA for Michael AAF, Dugway, Utah, the revised series will include RRAs for the following locations:

Edwards AFB, California White Sands Missile Range, New Mexico Point Mugu, California Eglin AFB, Florida Ascension Island, South Atlantic Wallops Island, Virginia Taquac (Guam) Barking Sands, Hawaii

#### **CONVERSION UNITS**

## Physical Constants and Conversion Factors

Numerical values in this document are given in the International System of Units (SI, Système International d'Unités). The values in parentheses are equivalent U.S. Customary Units, which are English units adapted for use by the United States of America. The SI and U.S. Customary Units provided in table F are those normally used for measuring and reporting atmospheric data.

By definition, the following fundamental conversion factors are exact:

Type	U.S. Customary Units	<u>Metric</u>
Length	1 U.S. yard (yd)	0.9144 meter (m)
Mass	l avoirdupois pound (1b)	453.59237 gram (g)
Time	1 second (s)	1 second (s)
Temperature	1 degree Rankine (°R)	9/5 degree Kelvin (K)

To aid in the conversion of units, conversion factors based on the above fundamental conversion factors are given in table F.

TABLE F. FACTORS FOR CONVERSION UNITS

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TAPLE	1. 1	HIND STAT	ISTICAL PA	RAMETERS,		JA	NUARY		
STATION	- 725720	DUGHAY	ISALT LAK	E CITY)					
Z	MEAN U	5.D. U	R(U,V)	MEAN V	S.D. V	MEAN MS	S.D. WS	SKEH HS	REGIN
KP1	H/S	M/5		M/S	H/S	H/S	H/S		
1.288	11	2.09	4764	. 96	3.64	3.75	2.45	1.88	1192.
2.000	1.68	2.73	2615	2.71	6.37	6.04	4.56	1.29	1190.
3.000	6.35	₩.81	0956	91	6.C8	9.17	4.15	.55	1188.
4.000	9.61	6.68	.2463	-3.52	8.10	13.62	5.42	.23	1167.
5.000	12.76	8.74	.2242	-4.91	10.63	17.90	7.45	. 20	1187.
6.000	15.52	11.01	.2303	-6.05	13.30	21.92	9.74	. 36	1187.
7.000	17.43	13.13	.2378	-6. <del>94</del>	15.62	25.21	11.53	.46	1179.
8.000	18.90	14.91	.2687	-7.74	17.64	27.95	13.02	, 444	1152.
9.000	20.28	15.47	. 3093	-8.47	19.16	30.39	14.04	.40	1131.
10.000	21.38	16.97	. 3043	-9.00	19.10	31.35	19.91	.43	:101.
11.000	22.14	15.98	.2647	-8.63	17.31	30.41	13.94	.52	1083.
12.000	22.27	13.93	.2173	-7.71	14.87	28.47	12.63	. <b>65</b>	1076.
13.000	21.34	11.01	.2107	-6.60	12.36	25.88	10.14	.58	10€→.
14.000	19.81	9.10	.2109	-5.82	10.68	23.50	8.41	. 3'+	1053.
15.000	io.c-	8.38	.2056	-5.:3	3.75	21.39	7.39	. 29	1000
16.000	16.45	7.65	.1318	-4.83	8.12	19.17	7.15	. 36	1051.
17.000	13.99	7.06	.0837	-4.45	6.89	16.40	6.62	. 64	1035.
18.000	11.07	6.72	. 06+3	-4.12	5.70	10.34	6.26	. 98	1027.
19.000	8.49	6.51	.0560	-4.02	4.91	10.96	5.88	1.11	1020.
20.000	6.46	6.71	.0150	-3.97	4.38	9.41	5.76	1.11	1013.
21.000	4.99	7.35	.0158	-4.13		8.91	5.78	1.19	1001.
22.000	3.74	8.39	.0084	-4.30		9.13	6.08	1.36	955
23.000	3.06	9.37	.0400	-4.54	4.23	9.75	6.37	1.46	940.
24.000	2.28	10.23	. 1546	-4.69	4.67	10.52	6.54	1.36	697.
25.000	1.79	11.28	.2598	-4.84	5.13	11.43	7.02	1.29	821.
26.000	1.66	12.42	. 3375	-5.11	5.75	12.56	7.64	1.21	B04.
27.000	1.71	13.87	. 3870	-5.35	6.23	13.89	8.36	1.20	636.
<b>28</b> .000	1.15	14.48	.4028	-5.64		14.72	8.83	1.51	<b>5</b> 73.
29.000	2.04	17.54	.4669	-4.67	8.64	17.16	10.62	1.18	280.
30.000	2.54	18.10	.4269	-4.99	9.14	17.61	11.45	1.18	244.

TABLE STATION	1. 2		ISTICAL PA			FEE	RUARY		
Z	MEAN U	S.D. U	R(U.V)	MEAN V	S.D. V	MEAN WS	S.O. WS	SKEH HS	NOBS
КM	M/S	M/S		M/S	M/S	M/S	M/S	O	
1.288	.06	2.17	~.4813	. 58	4.02	3.98	2.31	1.44	1118.
2.000	1.56	2.80	3462	1.89	6.19	5.84	4.25	1.21	1120.
3.000	5.31	4.60	.0497	86	6.29	8.50	4.16	. 77	1119.
4.000	7.89	6.42	. 1989	-2.91	8.06	12.14	5.43	.45	1118.
5.000	10.34	8.47	.2218	-4.33	10.54	15.90	7.44	.43	1118.
6.000	12.34	10.40	.2414	-5.17	13.03	19.23	9.33	.47	1114.
7.000	14.20	12.18	.2488	-6.13	15.46	22.45	11.06	.49	1114.
8.000	15.52	13.79	.2550	-7.24	17.36	25.14	12.34	.5t	1098.
9.000	17.01	15.09	.2782	-8.21	18.69	27.47	13.36	.54	1087.
10.000	18.81	15.17	.2841	-8.30	17.98	28.35	13.12	.48	106ວັ.
11.000	20.11	14.33	.2559	-8.0C	16.00	c1.01	, e. b.	ō۲.	10.0
12.000	20.51	12.25	.2302	-6.98	13.28	26.01	10.93	. 54	1036.
13.000	19.81	9.82	.2418	-5.92	11.15	23.77	9.11	.57	1028.
14.000	18.72	8.50	.2399	-5. <i>2</i> 7	9.87	21.99	8.00	. 35	1026.
15.000	17.13	7.64	.2380	-4.74	8.71	19.95	7.21	. 28	1024.
16.000	15.03	6.38	.1845	-4.21	7.37	17.38	6.65	.40	1018.
17.000	12.35	6.12	. 1435	-3.79	5.98	14.33	5.88	. 54	1007.
18.000	9.74	5.70	.1061	-3.42	5.06	11.63	5.43	.77	1009.
19.000	7.33	5.36	.0900	-3.15	4.38	9.30	5.02	. 95	1004.
20.000	5.41	5.35	.0323	-3.13	3.78	7.74	4.70	1.22	997.
21.000	3.92	5.61	.0263	-3.29	3.49	7.04	4 49	1.42	980.
22.000	2.55	6.11	0180	-3.53	3.52	5.98	4.46	1.48	342.
23.000	1.60	6.28	0017	-3.67	3.38	6.90	4.37	1.44	929.
24.000	. 88	7.07	·.0168	-3.78	3.65	7.48	4.73	1.45	898
25.000	.48	8.02	~.0179	-3.99	3.95	8.27	5.24	1.42	838
26.000	.48	8.71	.0034	-3.92	4.06	8.75	5.60	1.39	806.
27.000	. 67	9.66	.1071	-4.00	4.20	9.55	6.00	t - 30	653.
28.000	.61	10.62	. 1472	-4.22	4.84	10.52	5.44	1.23	610.
29.000	2.94	12.68	.2050	-4.40	5.59	12.74	7.58	1.27	3!7.
30.000	4.02	14.39	.1973	-4.44	6.26	14.39	9.63	1.33	295.

TABLE	1. 3	HIND STATE	ISTICAL PA	PAMETERS.		H/	<b>JRCH</b>		
STATION	- 725720	DUGHAY	(SALT LAK						
Z	HEAN U	5.D. U	R(U,V)	MEAN V	5.D. V	MEAN NS	S.D. WS	SKEH HS	NOB5
КM	M/S	M/S		H/5	M/S	M/S	M/S		
1.288	.25	2.37	4279	.61	4.57	4.62	2.57	1.38	1216.
2.000	1.69	2.97	3337	1.29	6.48	6.03	4.36	1.35	1213.
3.000	4.75	4.50	. 0755	. 31	6.33	8.12	4.11	.82	1212.
4.000	7.45	6.32	. 1639	03	7.57	11.26	5.17	. 35	1212.
5.000	9.64	8.33	. 1767	-1.43	9.61	14.36	7.10	. 39	1511
6.000	11.73	10.47	. 1670	-1.97	11.99	17.65	9.12	.50	1213.
7.000	13.40	12.63	1537	-2.33	14.34	20.74	10.95	. 56	1208.
8.000	14.44	14.39	.1773	-2.98	16.29	23.18	12.34	.59	1192.
9.000	15.99	15.59	. 2295	-3.40	17.79	25.38	13.52	.52	1183.
10.000	17.93	15.72	.2554	-3.77	17.84	26.46	14.12	.56	1160
11.000	19.16	14.49	.2593	-3.56	15.66	25.66	13.27	.57	1139
12.000	19.28	12.35	.2096	-2.84	12.84	23.72	11.59	.71	:126.
13.000	18.33	9.78	. 1942	-1.97	10.31	21.36	9.25	.70	1155
14.000	17.05	8.14	.2007	-1.50	8.61	19.42	7.72	.44	1114.
15.000	15.64	7.22	. 1760	-1.16	7.69	17.57	6.96	. 30	1112.
16.00 <b>0</b>	13.73	6.62	.1145	-1.02	6.71	15.39	6.46	. 43	1110
17.000	11.37	5.75	.0836	92	5.48	12.73	5 59	.70	1110.
18.000	9.01	5.21	.0767	82	4.62	10.29	4,94	. 87	1110
19 000	6.95	5.07	.0571	<b>8</b> 5	3.96	8.29	4.65	1.10	1102.
20.000	5.13	5.22	.1063	92	3.49	6.86	4.41	1.30	1094.
21.000	3.73	5.64	.1484	-1.01	3.09	6 21	4.22	1.62	1065.
22.000	2.46	6.17	.1370	-1.26	3.04	6.17	4.10	1.60	1031.
23.000	1.79	6.66	. 1940	-1.41	2.69	6.32	4.09	1.53	1015.
24.000	1.24	7.56	.2657	-1.55	2.83	7.00	4.48	1.44	977.
25.000	.90	8.76	.3421	-1.64	3.02	7.91	5.16	1.22	512.
26.000	1.15	10.07	. 3875	-1.65	3.09	8 99	5.84	1.08	863.
27.000	1.39	11.05	. 3951	~1.B4	3.28	9.78	6.51	1.13	664
28.000	1.86	12.30	.4142	-1.91	3.80	10.80	7.37	1.20	646
29.000	2.18	12.39	.5406	-1.91	4.57	11.19	7.56	1.00	351.
30.000	3.29	13.90	.5353	-2.10	5.22	12.68	8.63	. 85	<b>3</b> 25.

TABLE	1. 4		ISTICAL PA			Al	RIL		
	- 725720		SALT LAN						
Z	MEAN U	5.D. U	R(U,V)	MEAN V	5.0. V	MEAN WS	S.D. WS	SKEW WS	NOBS
KM	H/S	M/S		M/S	M/5	M/5	M/5		
ı.28 <b>8</b>	. 30	2.80	3441	.40	4.64	4.69	2.76	2.32	1198.
2.000	1.64	3.19	3201	1.28	6.60	6.19	4.44	1.18	1197.
3.000	4.07	4.12	0709	1.48	6.96	8.02	4.44	1.17	1196.
4.000	6.50	5.63	.0620	1.53	8.42	10.97	5.18	.47	1196.
5.000	8.44	7.23	.1180	1.60	10.77	13.94	6.89	.43	1197.
6.000	10.29	9.13	. 1189	1.70	12.73	16.85	8.38	.43	1194.
7.000	12.14	11.23	. 1370	1.77	14.92	20.02	9.91	.42	1169.
8.000	13.64	:3.00	. 1940	1.97	17.24	<b>2</b> 2.87	11.53	.45	1177.
9.000	15.36	14.37	.2373	1.97	19.04	<b>25</b> .37	12.85	.53	1169.
10.000	16.92	14.20	.2405	1.50	19.32	<b>26</b> 26	13.14	. 41	1150.
11.000	17.81	13.06	. ८ ४७७	1.64	17.70	£5.47	ic.37	. 37	115:
12.000	17.76	11.52	905	1.09	14.70	23.36	10.95	.46	1126.
13.000	16.61	9.56	.1307	1.51	11.81	20.66	9.06	.43	1121.
14.000	15.16	8.06	. 0855	2.01	9.91	18.37	7.72	. 31	1116.
15.000	13.74	7.18	.0801	2.27	8.70	16 50	6.97	.20	1103.
16.000	11.84	6.54	.0255	2.18	7.30	14.19	6.28	.40	1108.
17.000	9.62	5.60	0001	2.04	6.13	11.60	5.39	.43	1107.
18.000	7.35	5.04	0028	1.75	5.19	9.29	4.81	. 56	1110.
19.000	5.39	4.57	.0427	1.15	4.21	7.17	4.20	. 76	1112.
50.007	3.5 <del>9</del>	4.39	.0487	. 60	3.49	5.62	3.61	1.09	1102.
21.000	2.40	4.57	. 1435	. 27	3.05	5.03	3.28	1.25	1076.
<b>2</b> 2.00 <b>0</b>	1.75	5.17	.2342	.00	2.86	5.10	3.45	1.50	1056.
23.000	1.68	5.73	. 3410	17	2.54	5.21	3.86	1.49	1020.
24.000	1.60	6.61	. 3555	34	2.81	5.89	4.42	1.45	979.
25.000	1.86	7.53	.3976	52	2.93	6.57	5.07	1.39	961
26.000	2.48	B.50	.4396	50	3.02	7.37	5.79	1.27	901
27.000	3.33	9.51	.4331	63	3.18	8.28	6.58	1.31	74B.
26.000	4.36	10.63	.4274	63	3.52	9.39	7.52	1.34	737.
29.000	5.28	10.67	. 3851	÷.51	3.65	9.64	7.90	1.58	433.
30.000	6.80	11.58	. 3622	30	4.18	10.80	9.01	1.48	409.

TABLE	1. 5		ISTICAL PA			194	<b>(Y</b>		
STATION	<b>-</b> 725720	DUGHAY	ISALT LAK						
Z	MEAN U	5.D. U	R(U.Y)	MEAN V	\$.D. V	MEAN HS	S.D. HS	skeh hs	NOBS
101	H/5	M/S		H/S	M/5	H/S	M/S		
1.298	05	2.45	3869	.23	4.21	4.39	2.13	1.37	1239.
2.000	1.19	2.70	2393	1.07	5.75	5.36	3.76	1.34	1236.
3.000	3.42	4.00	.0332	1.60	5.81	6.69	4.05	1.22	1235.
4.000	5.70	5.45	.0490	2.30	7.06	9.66	4.90	.70	1233. 1234.
5.000	7.39	7.22	.0581	2.95	8.83	12.28	6.53	.78	
6.000	8.93	8.66	.0727	3.17	10.30	14.32	8.09	.90	1234.
7.000	10.21	9.97	.0722	3.22	11.84	16.32	9.37	.90	1234.
8.000	11.18	11.26	.0693	3.20	13.62	18.41	10.42	. 85	1227.
9.000	12.20	12.30	.1025	3.12	14.89	2C.'8	11.12	. 76	1219.
10.000	13.13	12 83	. 1031	2.78	15.57	21.36	11.43	.71	1201
11.000	13.90	12.42	.0946	2.42	15.17	21.41	11.17	.61	1188.
12.000	14.31	11.27	.0852	2.23	13.61	20.42	10.25	.54	1184.
13.000	13.62	9.41	.0327	2.18	10.78	17.98	8.45	.69	1177.
14.000	12.27	7.53	0093	2.35	8.56	15.47	6.82	.47	1175
15.000	10.72	€.∵≥	0750	2.33	7.17	13.33	5.8:	.51	1175
16.000	8.84	5.51	~.0995	2.12	5.91	11.15	4.86	.69	1176.
17.000	6.86	4.66	~.1508	1.75	4.70	8.86	3.94	.71	1173.
18.000	4.66	4.15	1817	1.14	3.87	6.58	3.45	. 92	1174.
19.000	2.72	3.58	1995	.41	3.19	<b>4.7</b> 7	5.60	1.32	1174.
20.000	1.04	3.21	2085	08	2.77	3.71	2.29	1.77	1161.
21.000	14	3.10	1876	36	2.47	3.40	2.08	1.73	1141.
22.000	-1.00	3.03	1596	56	2.31	3.43	2.01	1.24	1138.
23.000	-1.42	3.05	0625	68	1.99	3.43	2.00	. 95	1101.
24.000	-1.71	3.49	.0734	72	2.15	3.88	2.27	1.00	1089.
25,000	-1.61	3.66	.0918	81	2.13	4.12	2.39	1.33	1053.
26.000	-1.34	4.18	.1243	88	2.13	4.28	2.49	1.31	951.
27.000	-1.15	4.54	.1771	78	2.29	4.59	2.58	1.09	796.
28.000	97	4.91	.1778	60	2.39	4.86	2.73	1.18	772.
29.000	-1.05	5.05	.1072	57	2.53	5.08	<b>2</b> .72	.63	452.
30.000	67	5. 32	.1013	37	2.49	5.15	5.92	.75	<b>4</b> 30.
20.2.0									

TABLE	1. 6		ISTICAL PA			JE	NE		
31711011	725720		(SALT LAK	MEAN V	S.D. V	MEAN HS	S.D. WS	SKEW WS	NOBS
Z	MEAN U	5.D. U	נע,טות		5.U. V	M/S	M/S	ONEN NO	
KM	M/S	M/S		M/S . 30	4.22	11.39	2.03	1.27	1191
1.288	21	2.34	3358	1.09	5.73	5.32	3.60	1.11	1189.
2.000	.76	2.60	2721		5.22	6.48	3.60	.92	1189.
3.000	3.30	3.55	.0178	2.06	6.48	9.48	4.46	.56	1189.
4.000	5.83	4.86	0619	3.19	8.17	12.21	5.87	.60	1187.
5.000	7.65	6.37	0452	4.24	9.25	13.94	7.08	.60	1186.
5.000	9.13	7.39	.0313	4.45	10.42	15.71	6.18	.72	1185
7.000	10.57	8.55	.0996	4.49	11.82	17.57	9.40	.80	1184
8.000	11.89	9.78	.1152	4.53	13.20	19.42	10.42	.76	1193.
9.000	13.07	10.93	.1181	4.63	13.20	21.26	11.33	.70	1173.
10.000	14.47	.1.99	. 1550	4.90	14.51	22.31	11.56	.53	1170
11.000	15.60	12.35	.2005	5.01		22.42	11.13	.50	1169
12.000	16.44	12.10	.2082	4.75	13.69	20.84	9.79	.51	1164.
13.000	15.82	10.90	.2028	4.56	11.65	17.74	7.86	.47	1158.
14.000	13.83	B. B3	. 1541	4.16	9.49 7.53	14.25	5.93	.29	1157.
15.000	11.12	6.65	.0524	3.72		10.60	4.18	.17	1157
16.000	7.96	4.92	0317	2.95	5.79	7.09	2.97	.20	1151
17.000	4.74	3.74	~.0689	2.05	4.30	4.52	2.20	.53	1149
18.000	1.83	3.08	0407	1.18	3.33	3.38	1.60	.62	1143.
19.000	42	2.63	.0118	.61	2.61	3.58	1.00	.55	1134.
20.000	<b>-2</b> .26	2.41	.0073	. 17	2.12	4.37	2.08	.40	1116.
21.000	~3.69	2.45	0761	21	1.94	5.09	2.14	.10	1110.
22.000	-4.70	2.37	.0715	41	1.62	j.85	2.23	~.06	1061
23.000	-5.57	2.38	.034B	54	1.50	5.62	2.47	01	1061
2+.000	<b>∽6.3</b> 1	2.65	.0200	63	1.64		2.66	.02	1009
25.000	~6.96	2.85	0362	72	1.60	7.25	5.80	D1	917.
26.000	-7.67	2.95	0287	73	1.60	7.92 8.69	3.02	05	800
27.000	-8.39	3.20	.0573	57	1.98	9.09	3.02	16	732.
28.000	-8.84	3.32	.1165	44	1.73		3.48	08	48;
29.000	-9.53	3.72	. 1520	43	5.05	48.2		33	386
30.000	-10.17	3.57	.1814	45	1.78	10.40	3.35	٠. 33	300.

YABLE	1. 7		ISTICAL PA				LΥ		
STATION			ISALT LAK						
Z	HEAN U	S.D. U	R(U,V)	HEAN V	S.D. Y	MEAN HS	S.D. HS	skeh hs	N085
км	M/S	M/S		M/S	H/S	M/S	M/S		
1.288	40	2.33	3544	. 73	4.22	4.49	1.94	1.12	1243.
2.000	. 39	2.39	2197	1.97	5.61	5.33	3.57	1.12	1238.
3.000	2.71	5.93	.1312	1.99	4.13	5.23	3.09	1.01	1238.
4.000	4.81	3.83	.1177	2.75	4.73	7.33	3.73	.47	1237
5.000	6.47	→.77	.0916	3.67	5.95	9.53	4.76	.49	1238.
6.000	7.97	5.20	. 1563	4.18	6.47	10.96	5.45	.41	1239.
7.000	9.62	5.68	. 1695	4.64	6.93	12.58	6.01	.44	1237.
8.000	11.32	6.31	.1316	5.48	7.67	14.57	6.67	. 46	1237.
9.000	13.26	7.05	.0875	6.39	8.59	15.91	<b>7.3</b> 7	. 40	1278.
10.000	15.48	7.91	.0474	7.45	9.67	19.66	8.07	. 19	1235.
11.000	17.89	8.86	.0637	9.58	10.79	22.55	8.94	. 07	1234.
12.000	19.49	9.01	.0645	8.93	11.29	24.20	9.09	. 05	1838.
13.600	19.49	<b>B</b> .70	.0997	8.44	10.77	23.76	8.83	. 02	1226.
14.000	16.55	7.46	. 1024	7.04	9. <i>2</i> 8	£0.25	7.41	. 04	1220.
45.00 <b>0</b>	12, 39	5.32	.0744	5.45	7.59	15.56	5.78	. 03	1217.
16.000	7.96	4.66	. 1055	3.96	5.90	10.74	4.51	. 30	1214.
17.000	3.91	3.71	. 1 055	2.54	4.43	6.64	3.31	. 59	1212.
18.000	. 65	3.10	. 1455	1.37	3.55	4.35	2.38	. 85	1212.
19.000	-2.13	€.62	. 1521	.51	2.67	3.85	1.99	.74	1196.
20.000	-4.33	2.35	.1236	. 06	2.20	4.99	2.06	. 56	1166.
21.000	-5.90	5 53	.1191	- 23	2.01	6.27	2.14	. 32	1:7/.
22.000	-7.14	1.92	.1023	32	1.56	7.32	1.90	. 00	1155.
23.000	-8.33	10.5	.0886	33	1.48	8.48	1.98	.09	1116.
24.000	-9.42	2.22	.0335	46	1.51	9.56	2.20	.11	1114.
25.000	-10.31	2.30	.0264	47	1.54	10.44	2.26	. 05	1057
26.000	-11.23	2.40	.0392	52	1.59	11.36	2.37	. 04	94.0 L
27.000	-12.05	2.76	.0976	50	1.86	12.21	2.72	02	919.
29.000	-12.99	2.60	.1226	48	1.51	13.09	2.58	04	739.
29.000	-13.84	2.95	.0983	37	1.98	14.00	2.91	09	622
30.000	-14.84	2.84	.1464	53	1.69	14.95	2.83	13	408.

TABLE	1. 8 <b>- 725</b> 720		ISTICAL PA			A	JGUST		
Z	MEAN U	S.D. U	R(U.V)	MEAN V	S.C. V	MEAN HS	S.D. WS	SKEW WS	NOBS
КM	M/S	M/S	0,	M/S	M/S	M/S	M/S	JACK HJ	11003
1.288	47	2.25	3744	.73	4.24	4,49	1.88	1.12	1236
2.000	.67	2.27	2684	1.72	5.63	5.20	3.63	1.27	1234.
3.000	3.09	3.15	.0955	1.99	4.41	5.57	3.45	1.19	1234
4.000	5.10	4.31	.0803	2.66	5.31	7.91	4.15	.66	1232.
5.000	6.83	5.63	.0951	3.42	6.61	10.18	5.49	.68	1232.
6.000	8.36	6.40	.1216	3.72	7.42	11.72	6.51	. 74	1233.
7.000	9.99	7.22	.1161	3.90	8.16	13.38	7.39	.87	1232.
8.000	11.64	7.98	.0968	4.17	9.02	15.19	8.20	.92	1233.
9.000	13.38	8.74	.0615	4.83	9.98	17.35	8.79	. 80	1229.
10.000	15.43	9.63	.0258	5.74	11.09	19.95	9.43	.58	1223.
11.000	17.66	10.28	.0317	6.50	12.22	22.5y	9.94	.45	1203.
12.000	19.18	10.44	.0394	6.59	12.59	21:.03	10.06	. 32	1209.
13.000	18.96	9.90	.0681	5.96	11.55	23.23	9.31	. 26	1266.
14.000	16.54	3.44	.0425	5.03	9.80	20.13	7.80	. 32	1203.
15.000	12.69	6.49	.0452	3.99	7.75	15.58	6.02	. 27	1136.
16.000	8.47	4.93	.0927	2.75	5.74	10.76	4.57	. 50	1169.
17.000	4.59	3.77	.1351	1.64	4.14	6.65	3.30	. 75	1183.
18.000	1.62	3.14	.1413	. 69	3.20	4.24	2.28	.89	1180.
19.000	61	2.84	.1783	. 09	2.48	3.39	1.77	. 72	1170.
20.000	-2.37	2.73	. 1777	25	5.02	3.66	1.95	. 78	li€°.
21.000	-3.74	2.69	.1506	45	1.84	4.48	2.19	.48	1155.
22.000	-4.94	2.56	.0852	53	1.49	5.32	2.25	.11	1143
23.000	-6.05	2.63	. 0564	53	1.46	6.31	2.46	07	1101.
24.000	-7.02	2.80	.0157	53	1.53	7.26	2.65	12	1095.
25.000	-7.88	2.91	.0375	54	1.47	8.06	2.84	17	1045.
26.000	-8.59	3.01	.0427	62	1.47	8.76	2.93	10	949.
27.000	-9.34	3.33	.0144	64	1.79	9.56	3.26	12	916.
20.000	~9.96	3.19	.0745	62	1.54	10.12	3.13	08	775.
29.000	-10.62	3.60	.0814	55	2.09	10.90	3.40	. 11	605.
30.000	-11.40	3.49	.0626	53	1.79	11.57	3.43	07	423.

TABLE	1. 9	HIND STAT	ISTICAL PA	RAMETERS,		SI	DPTEMBER		
STATION		DUGHAY	ISALT LAK	E CITY)					
Z	MEAN U	5.D. U	R(U,V)	MEAN V	5.D. V	HEAN HS	S.D. WS	SKEH HS	NOBS
KM .	H/S_	H/S		M/S	M/S	1/5	M/S		
1.2 <b>98</b>	24	2.41	3917	.5 <u>9</u> 1.70	4.17	4.41	2.04	1.41	1197.
3.000	.99 3.55	2.47 3.65	2213 .0720	2.00	5.76 5.03	5.29 6.36	3.88 3.84	1.27	1194.
4.000	5.69	5.16	.0420	2.22	6.42	9.10	4.73	.95 .66	119+. i 192.
5.000	7.53	6.79	.1132	2.24	8.09	11.56	6.30	.53	1172.
6.000	9.10	3.39	. 1798	1.95	9.46	13.65	7.75	.72	1192.
7.000	10.60	9.92	.2255	1.79	10.85	15.78	9.08	. 85	1191
8.000	11.92	11.17	.2300	1.74	12.19	17.82	10.05	. 85	1191.
9.000	13.26	12.51	1 <b>955</b> .	1.68	13.29	19 76	11.01	.84	1195.
10.000	14.92	13.53	.2438	1.97	14.23	81.8,	11.66	. 67	1172.
11.000	16.81	13.99	.2534	2.23	14.57	23.51	11.95	.46	1:53.
12.000	18.29	13.35	.2645	2.14	13.62	23.95	11.57	. 32	1155.
13.000	18.22	11.67	.2543 .2418	2.00 1.71	12.19	22.62	10.43	35	1146
14.000 15.0ປປ	16.74 14.76	9.64 7.57	.2418 .2243	1.71	10.00	20.04 ;5.73	8.61 5.8°	. 24	1140. • • • • =
16.000	11.32	6.18	.2008	1.07	5.65	13.41	5.64	. 30	1131.
17.000	8.19	4.96	. 1303	.50	5.09	9.87	4.52	.50	1126.
18.000	5.09	4.14	.1377	04	4.00	6.81	3.56	.72	1127.
19.000	2.94	3.52	. 1637	42	3.24	4.97	2.65	.74	1123.
20.000	1.50	3.37	. 1979	55	2.80	4.0	2.26	1.15	1110.
21,000	.67	3.30	.2030	~ . 56	2.59	3.77	2.17	1.13	1103.
22.000	.21	3.34	.1849	64	2.22	3.54	2.01	1.15	1102.
23.000	05	3.38	.1774	66	1.97	3.45	1.95	1.16	1068
24.000	15	3.77	. 1362	61	2.03	3.73	2.19	1.19	1065
25.000	15	4.03	.1339	57	1.94	3.91	2.24	:.03	1030.
26.000	09	4.31	.1847	45	1.87	4.09	2.37	1.01	939.
27.000	10	4.76	.2093	44	2.15	4.53	2.65	. 88	616
26.000	. 14	5.04	.2764	- 36	10.5	4 61	2.89	1.07	777.
29.000	24	5.60 5.96	, <b>2</b> 449	34	2.19	5.13	3.16	1.26	480.
30.00 <b>0</b>	. 18	5.96	. 3663	22	2.08	5.29	3.45	1.21	٠.٠5.
TABLE STATION	MEAN U	ร.ช. บ	STICAL PAR (SALT LAKE RIU,V)	CITY) MEAN V	s.b. v	MEAN HS	TOBER	skem ms	NO9S
STATION 4	725720 MEAN U M/S	DUGHAY S.D. U M/S	(SALT LAKE	CITY) MEAN V M/S	M/S	HEAN WS M/S	5.D. WS M/S		
STATION 4 Z KM 1.298	725720 MEAN U M/S 05	DUGHAY S.D. U M/S 2.22	(SALT LAKE RIU,V) 4811	CITY) MEAN V M/S .17	M/S	MEAN HS H/S 4.11	5.D. WS M/5 2.01	1.65	1234.
STATION 4 Z KM 1.298 2.000	725720 MEAN U M/S 05	DUGHAY V	(SALT LAKE RIU,V) 4811 2172	CITY) MEAN V M/S .17	M/S 4.00 5.83	HEAN HS M/S 4.11 5.09	S.D. WS M/S 2.01 4.07	1.65	1234. 1229.
STATION 4 Z KM 1.298 2.000 3.000	725720 MEAN U M/S 05 1.11 3.37	DUGHAY S.D. V M/S 2.22 2.38 4.29	(SALT LAKE RIU,V) 4811 2172 .0735	CITY) MEAN V M/S .17 1.29	M/S 4.00 5.83 5.80	HEAN HS M/S 4.11 5.09 6.90	S.D. WS M/S 2.01 4.07 4.06	1.65 1.57 1.12	1234. 1229. 1227.
STATION 4 Z KM 1.288 2.000 3.000 4.000	725720 MEAN U M/S 05 1.11 3.37 5.61	DUGHAY S.D. V M/S 2.22 2.38 4.29 6.18	(SALT LAKE RIU,V) 4811 2172 .0735 .1540	CITY) MEAN V M/S .17	M/S 4.00 5.83	HEAN HS M/S 4.11 5.09	S.D. WS M/S 2.01 4.07	1.65	1234. 1229.
STATION 4 Z KM 1.298 2.000 3.000	725720 MEAN U M/S 05 1.11 3.37	DUGHAY S.D. V M/S 2.22 2.38 4.29	(SALT LAKE RIU,V) 4811 2172 .0735	MEAN V MEAN V M/S .17 1.29 .81	M/S 4.00 5.83 5.80 7.34	MEAN WS M/S 4.11 5.09 6.90 9.90	S.D. WS M/S 2.01 4.07 4.06 5.05	1.65 1.57 1.12 .65	1234. 1229. 1227. 1225.
STATION 4 Z KM 1.288 2.000 3.000 4.000 5.000	- 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59	DUGHAY 5.0. U M/S 2.22 2.38 4.29 6.18 7.91	(SALT LAKE RIU,V) 4811 2172 .0735 .1540 .1850	CITY) MEAN V M/S .17 1.29 .81 .0938	M/S 4.00 5.83 5.80 7.34 9.39	HEAN WS M/S 4.11 5.09 6.90 9.90 12.76	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76	1.65 1.57 1.12 .65 .52 .53	1234. 1229. 1227. 1225. 1227.
STATION 4 Z KM 1,288 2,000 3,000 4,000 5,000 6,000	- 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81	(SALT LAKE RIU,V) 4811 2172 .0735 .1540 .1850 .2015	MEAN V M/S .17 1.29 .81 .09 38 54 68 92	M/S 4.00 5.83 5.80 7.34 9.39	MEAN WS M/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00	5.D. #S M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23	1.65 1.57 1.12 .65 .52 .53 .60	1834. 1829. 1827. 1825. 1827. 1831. 1829. 1825.
5TATION 1 Z KM 1.298 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000	725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24	(SALT LAKE RIU,V) 4811 2172 .0735 .1540 .1890 .2015 .2175 .2321 .2767	MEAN V M/S .17 1.29 .81 .09 38 54 68 92 -1.17	M/S 4.00 5.63 5.60 7.34 9.39 11.41 13.26 15.00 16.51	HEAN HS H/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00 22.01	5.D. WS M/S 2.01 4.06 5.05 6.76 8.60 10.01 11.23 12.12	1.65 1.57 1.12 .65 .52 .53 .60 .69	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218.
STATION - 7 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 9.000 9.000 10.000	725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46	DUGHAY 5.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95	(SALT LAKE RIU,V) 4811 2172 .0735 .1540 .1890 .2015 .2175 .2321 .2767 .3045	MEAN V M/S .17 1.29 .81 .09 38 54 68 92 -1.17 -1.52	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.20	MEAN WS M/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00 22.01 23.41	S.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.43	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196.
STATION 4 Z KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000	* 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11	(SALT LAKE RIU,V) 4811 2172 .0735 .1540 .1890 .2015 .2175 .2321 .2767 .3045	CITY) MEAN V M/S .17 1.29 .81 .0938546892 -1.17 -1.55 -1.66	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.20 17.06	HEAN WS M.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00 22.01 23.41 24.15	5.D. WS M/5 2.01 4.07 4.06 5.05 6.60 10.01 11.23 12.12 12.13 12.28	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74	1239. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196.
STATION 4 Z KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 12.45 13.46 14.64 15.39	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33	(SALT LAKE RIU,V) 4811 2172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .3214 .3181	CITY) MEAN V M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.06 -1.77	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06	HEAN WS M/S 4.11 5.09 6.90 12.76 15.49 17.95 20.00 22.01 23.41 5.15 23.60	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.13 12.13 12.13	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1104. 1180.
STATION 4 7 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58	(SALT LAKE RIU,V) 4811 2172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .5514 .3181 .2686	CITY) YEAN V M/S .17 1.29 .81 .09388546892 -1.17 -1.52 -1.66 -1.77 -1.43	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.20 17.06	MEAN WS M/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00 22.01 23.41 24.15 23.60 21.81	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.43 12.24 11.53 10.30	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1101.
STATION 4	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66	DUGHAY 5.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55	(SALT LAKE RIU,V)48112172 .0735 .1540 .1890 .2015 .2175 .2175 .2321 .2767 .3045 .3c14 .3181 .2686	CITY) YEAN V M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.20 17.06 15.65 13.56	MEAN WS M/S M/S M/S M/S M/S M/S M/S M/S M/S M/	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.43 12.24 11.53 10.30 9.05	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41	123%. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1104. 1140. 1171. 1159.
STATION 4 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 9.000 10.000 11.000 13.000 14.000 15.000	* 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29	DUGHAY 5.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.95 15.11 14.33 12.58 10.55 8.62	(SALT LAKE RIU,V)48112172 .0735 .1540 .1890 .2015 .2175 .2175 .2321 .2767 .3045 .3214 .3181 .2686 .2403	CITY) MEAN V M/S .17 1.29 .81 .0938546899 -1.17 -1.52 -1.06 -1.77 -1.43 -1.23 -1.05	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 11.62 9.73	MEAN WS M/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00 22.01 23.41 24.15 23.60 21.81 19.52 17.01	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.14 11.53 10.30 9.05 7.59	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1219. 1196. 1171. 1160.
STATION 4 Z KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000 16.000	* 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.66 15.39 15.42 14.66 13.29 11.44	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .3181 .2686 .2403 .2469 .2183	CITY) MEAN V M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.06 -1.77 -1.43 -1.23 -1.05 -1.18	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 11.62 9.73 7.76	MEAN WS M/S M/S M/S M/S M/S M/S M/S M/S M/S M/	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 12.12 12.12 12.12 12.23 10.30 9.05 7.59 6.25	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .31 .36	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1171. 1169. 1171. 1169.
STATION 4 7 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29 11.44 9.13	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .3214 .3181 .2686 .2403 .2469 .2183 .1704	CITY) MEAN V M/S .17 1.29 .81 .0938546899 -1.17 -1.52 -1.06 -1.77 -1.43 -1.23 -1.05	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 11.62 9.73	HEAN WS M/S 4.11 5.09 6.90 12.76 15.49 17.95 20.00 22.01 23.41 24.15 21.81 19.52 17.01 14.24	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.14 11.53 10.30 9.05 7.59	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1219. 1196. 1171. 1159. 1153.
STATION 4 Z KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000 16.000	* 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.66 15.39 15.42 14.66 13.29 11.44	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .3181 .2686 .2403 .2469 .2183	CLITY) YEAN V M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.06 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26	M/S 4.00 5.83 5.80 7.34 9.39 11.41 15.00 16.51 17.20 17.66 15.65 13.56 11.62 9.73 7.76 6.13	MEAN WS M/S M/S M/S M/S M/S M/S M/S M/S M/S M/	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.43 12.24 11.53 10.30 9.05 7.59 6.25 5.00	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .32 .23 .23	1234. 1229. 1227. 1225. 1227. 1231. 1225. 1218. 1196. 1171. 1159. 1153. 1141.
TATION 4  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 9.000 10.000 11.000 11.000 13.000 14.000 15.000 16.000 17.000 18.000	* 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29 11.44 9.3	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.68 4.69 4.69 5.63 4.69 5.63 6	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .2403 .2469 .2469 .2469 .1704 .1222 .1739 .2359	CITY) MEAN V M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.06 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.30 -1.30 -1.37	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 11.62 9.73 7.76 6.13 5.01 4.14	HEAN WS H/S H/S H/S H/S H/S H/S H/S H/S H/S H/	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.43 12.24 11.53 10.30 9.05 7.59 5.00 4.06 3.31 3.04	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .36 .31 .32 .23 .28 .35 .51	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1171. 1159. 1153. 1149. 1141. 1144. 1144.
STATION 4  Z  KM  1.288  2.000  3.000  4.000  5.000  6.000  7.000  8.000  9.000  10.000  11.000  12.000  13.000  14.000  15.000  16.000  17.000  18.000  19.000  20.000  21.000	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29 11.94 9.13 6.83 5.05 3.88 3.34	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.68 4.01 3.77 3.70	(SALT LAKE RIU, V) 48112172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .3214 .3181 .2686 .2403 .2469 .2469 .2469 .2163 .1704 .1222 .1739 .2359 .2369	CLITY) YEAN V M/S .17 1.29 .81 .0938546859 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.37 -1.26 -1.37 -1.20	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 17.00 16.51 17.00 17.06 11.62 9.73 7.76 6.13 5.01 4.14 3.50 3.23	MEAN WS M/S M/S M/S M/S M/S M/S M/S M/S M/S M/	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.43 12.24 11.53 10.30 9.05 7.59 6.25 5.00 4.06 3.31 4.88	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .36 .31 .32 .23 .23 .23 .51 .60	1234. 1229. 1227. 1225. 1227. 1231. 1225. 1218. 1196. 1171. 1159. 1153. 1141. 1144. 1142. 1142.
TATION 4  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000	* 725720 MEAN U M/S 05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29 11.44 9.13 6.83 5.05 3.88 3.34 3.23	DUGHAY 5.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.68 4.01 3.77 3.70 3.71	(SALT LAKE RIU, V)48112172 .0735 .1540 .1890 .2015 .2175 .2321 .2767 .3045 .3c14 .3181 .2686 .2403 .2469 .2183 .1704 .1222 .1739 .2359 .2269	CCITY) YEAN V M/S .17 .1.29 .81 .0938546892 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.30 -1.37 -1.32 -1.19	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 11.62 9.73 7.76 6.13 5.01 4.14 3.50 3.23	MEAN WS M/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00 22.01 23.41 54.15 23.60 21.81 19.52 17.01 14.24 11.37 8.89 7.05 5.83 5.18	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.43 12.24 11.53 10.30 9.05 7.59 6.25 5.00 4.06 3.31 3.04 2.88 2.81	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .36 .31 .32 .23 .23 .28 .35 .51 .60	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1171. 1153. 1149. 1144. 1144. 1144. 1144. 1144.
STATION 4  Z  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 17.000 18.000 20.000 20.000 21.000 23.000	* 725720 **M**S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.66 14.66 14.66 13.29 11.44 9.13 6.83 5.05 3.88 3.34 3.50	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.68 4.01 3.77 3.70 3.71 3.62	(SALT LAKE RIU.V)48112172 .0735 .1540 .1850 .2015 .2767 .3045 .2767 .3181 .2686 .2403 .2469 .2183 .1704 .1222 .1739 .2359 .2969 .2185	CITY)  MEAN V  M/S .17 1.29 .81 .0938546892 -1.17 -1.56 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.37 -1.32 -1.30 -1.37 -1.32 -1.17 -1.52	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 9.73 7.76 6.13 5.01 4.14 3.50 3.23 3.23	HEAN WS M/S 4.11 5.09 6.90 12.76 15.49 17.95 23.41 24.11 24.13 11.37 8.69 7.05 5.83 5.33 5.18 5.16	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 12.12 12.43 11.53 10.30 9.05 7.59 5.00 4.06 3.31 3.04 2.88 2.75	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .36 .31 .32 .23 .28 .35 .51 .60 .94 1.09	1234. 1229. 1227. 1225. 1227. 1229. 1225. 1219. 1196. 1171. 1153. 1199. 1191. 1194. 1194. 1194. 1194. 1194. 1194. 1194.
STATION 4  7  KM 1.288 2.000 3.000 4.000 5.000 6.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 17.000 18.000 20.000 21.000 22.000 23.000 24.000	* 725720 **MEAN U **MIS**05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29 11.44 9.13 6.83 5.05 3.88 3.34 3.23 3.50 3.85	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.68 4.01 3.77 3.70 3.71 3.62 4.09	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .2467 .3181 .2686 .2403 .2469 .2183 .1704 .1222 .1739 .2298 .2185 .2576 .2367	CITY)  YEAN V  M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.06 -1.77 -1.43 -1.23 -1.23 -1.26 -1.30 -1.31 -1.26 -1.37 -1.32 -1.20 -1.19 -1.15 -1.05	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 11.62 9.73 7.76 6.13 5.01 4.14 3.50 3.23 3.03 2.73 2.87	HEAN WS M/S 4.11 5.09 6.90 12.76 15.49 17.95 20.00 22.01 23.41 24.15 23.60 21.81 19.52 17.01 14.24 11.37 8.68 7.05 5.33 5.18 5.16 5.58	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.12 12.43 12.24 11.53 10.30 9.05 7.59 5.00 4.06 3.31 2.88 2.81 2.88 2.81 2.81	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .31 .32 .23 .28 .35 .51 .60 .94 1.09	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1171. 1153. 1149. 1141. 1144. 1134. 1104. 1108. 1108.
STATION 4  Z  KM  1.288  2.000  3.000  4.000  5.000  6.000  7.000  8.000  9.000  10.000  11.000  12.000  13.000  14.000  15.000  16.000  17.000  18.000  19.000  20.000  21.000  23.000  24.000  25.000  25.000	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 13.46 14.64 15.39 15.42 14.66 13.29 11.44 9.13 6.83 5.05 3.88 3.34 3.50 3.85 4.59	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.95 15.11 14.58 10.55 8.62 7.02 5.63 4.68 4.01 3.77 3.70 3.71 3.62 4.09 4.36	(SALT LAKE RIU, V) 48112172 .0735 .1540 .1850 .2015 .2175 .2316 .2767 .3045 .2469 .2469 .2463 .2469 .2183 .1704 .1222 .1739 .2359 .2367 .2367 .2587	CCITY) YEAN V M/S .17 1.29 .81 .093885468092 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.30 -1.37 -1.52 -1.19 -1.155 -1.667	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 17.06 15.65 13.56 11.62 9.73 7.76 6.13 5.01 4.14 3.50 3.23 3.03 2.73 2.78	MEAN WS M/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 22.01 23.41 24.15 23.60 21.81 19.52 17.01 14.24 11.37 8.88 7.05 5.83 5.18 5.16 6.09	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.143 12.243 12.243 12.243 12.25 12.30 9.05 7.59 6.25 5.00 4.06 3.31 4.06 3.31 4.88 2.89 2.81 2.89 3.89 3.89 3.89 3.89 3.89 3.89 3.89 3	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .36 .31 .32 .23 .28 .35 .51 .60 .94 1.09 .94	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1129. 1159.
TATION 4  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 9.000 9.000 10.000 11.000 13.000 14.000 15.000 16.000 17.000 18.000 17.000 18.000 20.000 21.000 21.000 21.000 21.000 21.000 22.000 23.000 24.000 25.000 26.000	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29 11.44 9.13 6.83 5.05 3.88 3.34 3.23 3.50 3.559 5.54	DUGHAY 5.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.60 4.01 3.77 3.70 3.71 3.62 4.09 4.36 4.60	(SALT LAKE RIU, V) 48112172 .0735 .1540 .1890 .2015 .2175 .2321 .2767 .3045 .3c14 .3181 .2686 .2403 .2469 .2183 .1704 .1222 .1739 .2359 .2298 .2185 .2576 .2367 .2587	CCITY) YEAN V M/S .17 .1.29 .81 .0938546892 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.30 -1.37 -1.32 -1.05 -1.30 -1.37 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 13.56 14.62 9.73 7.76 6.13 5.01 4.14 3.50 3.23 3.23 3.23 2.87 2.87 2.81	MEAN WS M/S 4.11 5.09 6.90 9.90 12.76 15.49 17.95 20.00 22.01 23.41 25.15 23.60 21.81 19.52 17.01 14.24 11.37 8.89 7.05 5.83 5.18 5.16 5.50 6.80	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 11.23 12.43 12.22 12.43 12.23 12.23 12.23 12.24 11.53 10.30 9.05 7.59 6.25 5.00 4.06 3.31 3.04 2.81 2.81 2.81 3.74	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .31 .32 .23 .28 .35 .51 .60 .94 1.09 .94 .93 1.01 1.22	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1171. 1153. 1194. 1194. 1194. 1194. 1194. 1104. 1104. 1060. 1065.
STATION 4  7  KM 1.288 2.000 3.000 4.000 5.000 6.000 9.000 10.000 11.000 12.000 13.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 21.000 22.000 23.000 24.000 25.000 25.000 26.000 27.000	* 725720 **M**U  **M**M  **M**M  **M**M  **M**M  **M**M	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.60 4.01 3.77 3.70 3.71 3.71 3.62 4.09 4.36 4.60 5.16	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2767 .3045 .2767 .3045 .2469 .2183 .1704 .1222 .1739 .2359 .2298 .2185 .2576 .2367 .2597 .2770 .3435	CITY)  YEAN V  M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23 -1.23 -1.25 -1.26 -1.30 -1.37 -1.32 -1.20 -1.30 -1.37 -1.32 -1.65 -1.37 -1.32 -1.65 -1.37 -1.32 -1.65 -1.37 -1.32 -1.65 -1.37 -1.32 -1.65 -1.37 -1.32 -1.65 -1.37 -1.32 -1.65 -1.65	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 9.73 7.76 6.13 5.01 4.14 3.50 3.23 3.23 2.73 2.78 2.87 2.81 3.04	HEAN WS H.11 5.09 6.90 12.76 15.49 17.95 20.00 22.01 23.41 24.160 21.81 19.52 17.05 5.83 5.18 5.16 6.09 6.80 7.85	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 12.12 12.43 11.53 10.30 9.05 7.59 6.25 5.00 4.06 3.31 3.04 2.81 2.75 3.11 3.39 4.39 4.39 4.39	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .36 .31 .32 .28 .35 .51 .60 .94 1.09 .94 1.09 .94 1.01 1.22 1.13	1234, 1229, 1227, 1225, 1227, 1221, 1229, 1225, 1219, 1196, 1171, 1199, 1191, 1194,
STATION 4  7  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 17.000 18.000 20.000 21.000 22.000 23.000 24.000 25.000 25.000 26.000 27.000 28.000	725720 MEAN U M/S05 1.11 3.37 5.61 7.59 9.34 10.66 11.52 12.45 13.46 14.64 15.39 15.42 14.66 13.29 11.44 9.13 6.83 5.05 3.88 3.34 3.23 3.50 3.85 4.59 5.54 6.66 7.83	DUGHAY S.D. V M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.68 4.01 3.77 3.70 3.71 3.52 4.09 4.36 5.16 5	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2175 .2321 .2767 .3045 .2467 .3181 .2686 .2403 .2469 .2183 .1704 .1222 .1739 .2298 .2185 .2576 .2587 .2587 .2770 .3455 .3570	CCITY) YEAN V M/S .17 .1.29 .81 .0938546892 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.30 -1.37 -1.32 -1.05 -1.30 -1.37 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32 -1.77 -1.32	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 11.62 9.73 7.76 6.13 5.01 4.14 3.50 3.23 3.03 2.78 2.87 2.87 2.81	HEAN WS H/S H/S H/S H/S H/S H/S H/S H/S H/S H/	5.D. WS M/S 2.01 4.07 4.06 5.76 8.60 10.01 11.23 12.12 12.12 12.23 10.30 9.05 7.59 5.00 4.06 3.31 2.88 2.81 2.88 2.81 2.89 3.75	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .36 .31 .32 .23 .28 .35 .51 .60 .94 1.09 .94 1.01 1.22 1.13 1.13	1234. 1229. 1227. 1225. 1227. 1231. 1229. 1225. 1218. 1196. 1171. 1153. 1194. 1194. 1194. 1194. 1194. 1104. 1104. 1060. 1065.
STATION 4  7  KM 1.288 2.000 3.000 4.000 5.000 6.000 9.000 10.000 11.000 12.000 13.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 21.000 22.000 23.000 24.000 25.000 25.000 26.000 27.000	* 725720 **M**U  **M**M  **M**M  **M**M  **M**M  **M**M	DUGHAY S.D. U M/S 2.22 2.38 4.29 6.18 7.91 9.81 11.51 12.95 14.24 14.95 15.11 14.33 12.58 10.55 8.62 7.02 5.63 4.60 4.01 3.77 3.70 3.71 3.71 3.62 4.09 4.36 4.60 5.16	(SALT LAKE RIU,V)48112172 .0735 .1540 .1850 .2015 .2767 .3045 .2767 .3045 .2469 .2183 .1704 .1222 .1739 .2359 .2298 .2185 .2576 .2367 .2597 .2770 .3435	CITY)  YEAN V  M/S .17 1.29 .81 .0938546892 -1.17 -1.52 -1.66 -1.77 -1.43 -1.23 -1.05 -1.18 -1.26 -1.30 -1.37 -1.52 -1.66 -1.37 -1.55 -1.18 -1.66 -1.37 -1.56 -1.37 -1.56 -1.37 -1.56 -1.37 -1.56 -1.37 -1.56 -1.37 -1.56 -1.66	M/S 4.00 5.83 5.80 7.34 9.39 11.41 13.26 15.00 16.51 17.06 15.65 13.56 9.73 7.76 6.13 5.01 4.14 3.50 3.23 3.23 2.73 2.78 2.87 2.81 3.04	HEAN WS H.11 5.09 6.90 12.76 15.49 17.95 20.00 22.01 23.41 24.160 21.81 19.52 17.05 5.83 5.18 5.16 6.09 6.80 7.85	5.D. WS M/S 2.01 4.07 4.06 5.05 6.76 8.60 10.01 12.12 12.43 11.53 10.30 9.05 7.59 6.25 5.00 4.06 3.31 3.04 2.81 2.75 3.11 3.39 4.39 4.39 4.39	1.65 1.57 1.12 .65 .52 .53 .60 .69 .74 .55 .41 .36 .31 .32 .28 .35 .51 .60 .94 1.09 .94 1.09 .94 1.01 1.22 1.13	1234. 1229. 1227. 1225. 1227. 1221. 1229. 1225. 1219. 1126. 1171. 1153. 1149. 1144. 1134. 1104. 1104. 1080. 1085. 1046. 876. 876.

TABLE	1. 11 • 725720		ISTICAL PA			N	CVEMBER		
Z	HEAN U	S.D. U	'(SALT LAK) R(U,V)	MEAN V	5.D. V	MEAN US	S.D. WS	SKEH HS	NOBS
kМ	M/S	M/S		H/S	M/S	M/5	M/S	3KEN H3	14053
1.288	01	2.10	4854	. 76	3.90	3.91	2.22	1.43	1199.
2.000	1.32	2.55	3718	2.48	6.49	5.94	4.60	1.15	1197.
3.000 4.000	4.99 8.22	4.69 6.45	.0292 .1268	.49 -1. <i>2</i> 6	6.33 8.17	8.33 12.14	4.21 5.49	. 72 . 39	1196.
5.000	11.09	8.65	.1030	-2.31	10.81	16.25	7.47	.43	1196. 1196.
6.000	13.68	0.67	.0937	-2.98	13.22	19.90	9.40	.46	1197.
7.200	15.83	12.60	.1079	-3.53	15.76	23.36	11.15	.48	1193.
9.000	17.35	14.05	. 1565	-4.00	17.91	26.17	12.27	.47	1183.
9.000	19.43	15.65	.2192	-4.64	20.01	29.27	13.67	.48	1175.
10.000	21.17	16.64	.2553	-5.50	20.78	31.27	14.46	. 50	1154.
11.000	22.41 22.83	16.60 15.33	.2409 .2371	-5.81 -5.37	19.93 17. <b>8</b> 9	31.68 33.52	14.32 13.17	.47 .42	1127. 1120.
13.000	21.65	12.91	.2496	-4.48	15.13	27.59	11.09	. 34	1114.
14.000	19.91	10.43	.2311	-3.60	12.71	24.33	9.36	.21	1103.
15.Ju0	17.79	8.61	. 2330	- ċ.₩u	10.54	ē1.33	8.00	.:5	1101.
16.000	15.38	7.37	.1953	-2.59	9.12	16 55	6.99	. 2 <b>2</b>	1101.
17.000	12.66	6.34	. 1490	-2.39	7.24	14.98	6.10	. 59	1085.
18.000	9.80	5.54	532	-2.09	5.78	11.68	5.30	.98	1090.
19.000 20.00	7.44 62.ذ	5.04 4.79	.±367 .± ⊋3	-2.02 -1.94	4.75 4.08	9.24 7. <b>53</b>	4.70 4.28	1.15 1.33	1078
21.000	4.22	4.99	. 1 3 3 3	-1.98	3.44	6.42	4.15	1.59	1056. 1 <b>028</b> .
22.000	3.30	5.52	1080	-5.09	3.43	6.24	4.31	1.76	1001
23.000	2.95	6.08	.1427	-2. <b>22</b>	3.24	6.31	4.62	1.88	985.
24.00)	2.56	6.87	. 1629	-2.31	3.44	6.77	5.00	1.76	954.
25.00	2.39	7.66	.2191	-2.39	3.54	7 31	5.39	1.72	901
26.000	2.73	8.62	.3002	-2.39	3. /9	8.03	6.09	1.72	8°6.
27.000	3.28	9.78	. 3474	-2.43	3.99	8.59	6.87	1.77	698.
29.000 29.000	3.72 3.26	10.52 10.54	. <b>3631</b> . 3152	-2.54 -2.84	4.37 4.37	9.82 5.94	7.31 7.05	1.87 1.57	669. <b>2</b> 75.
30.000	4.29	11.25	.3326	-2.95	4.62	10 83	7.57	1.37	232.
TABLE STATION		DUGWAY	ISTICAL PAR (SALT LAKE	CITY	5.D. V		CEMBER	skew ws	NORS
					5.D. V M/5	DE MEAN WS M/S	CEMBER S.D. WS M/S	SKEH HS	NOB2
STATION :	725720 U MEAN U	DUGHAY S.D. U	(SALT LAKE	CITY) MEAN V M/S .81	M/5 3.71	MEAN WS M/S 3.60	5.D. WS M/S 2.35	1.95	1234.
STATION : Z KM 1.288 2.000	725720 MEAN U M/S .09 1.59	DUGHAY S.D. U M/S 2.01 2.76	(SALT LAKE RIU,V) 4696 3158	CITY) MEAN V M/S .81 2.48	M/5 3.71 6.48	MEAN WS M/S 3.60 6.07	S.D. WS M/S 2.35 4.62	1.95 1.26	1234. 1231.
STATION : Z KM 1.288 2.000 3.000	= 725720 MEAN U M/S .09 1.59 5.89	DUGHAY S.D. U M/S 2.01 2.76 4.97	(SALT LAKE RIU,V) 4696 3158 .0989	CITY) MEAN V M/S .81 2.4846	M/5 3.71 6.48 6.24	MEAN WS M/S 3.60 6.07 8.95	S.D. WS M/S 2.35 4.62 4.29	1.95 1.26 .79	1234. 1231. 1229.
STATION : 2 KM 1.288 2.000 3.000 4.000	• 725720 MEAN U M/S .09 1.59 5.89 9.23	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94	(SALT LAKE RIU,V) 4696 3158 .0989 .1825	MEAN V MEAN V M/S .81 2.48 46 -2.89	M/5 3.71 6.48 6. <i>2</i> 4 8. <i>2</i> 4	MEAN WS M/S 3.60 6.07 8.95 13.23	5.D. WS M/S 2.35 4.62 4.29 5.87	1.95 1.26 .79 .47	1234. 1231. 1229. 1229.
Z KM 1.288 2.000 3.000 4.000 5.000	T25720 MEAN U M/S .09 1.59 5.89 9.23 12.12	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15	(SALT LAKE RIU,Y) -,4696 -,3158 ,0989 ,1825 ,1325	MEAN V M/S .81 2.48 46 -2.89	M/5 3.71 6.48 6.24 8.24 10.70	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27	5.D. WS M/S 2.35 4.62 4.29 5.87 7.97	1.95 1.26 .79	1234. 1231. 1229. 1231.
STATION : 2 KM 1.288 2.000 3.000 4.000	• 725720 MEAN U M/S .09 1.59 5.89 9.23	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94	(SALT LAKE RIU,V) 4696 3158 .0989 .1825	MEAN V MEAN V M/S .81 2.48 46 -2.89	M/5 3.71 6.48 6. <i>2</i> 4 8. <i>2</i> 4	MEAN WS M/S 3.60 6.07 8.95 13.23	5.D. WS M/S 2.35 4.62 4.29 5.87	1.95 1.26 .79 .47	1234. 1231. 1229. 1229.
2 KM 1.288 2.000 3.000 4.000 5.000 6.000	725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 11.20	(SALT LAKE RIU,V) 4696 3158 .0989 .1825 .1325 .1503	MEAN V M/S .81 2.48 -2.69 -4.11 -4.75 -5.67 -6.59	M/S 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34	5.D. W5 M/S 2.35 4.62 4.29 5.87 7.97 9.88 11.69 13.43	1.95 1.26 .79 .47 .35 .36 .38	1234 - 1231 - 1229 - 1229 - 1231 - 1231 - 1226 - 1213 -
STATION 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000	• 725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46	(SALT LAKE RIU, V) 4696 3158 .0989 .1825 .1325 .1503 .1823 .2286 .2759	MEAN V M/S .81 2.48 46 -2.89 -4.11 -4.75 -5.57 -6.59 -7.26	M/5 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.18	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94	5.D. WS M/S 2.35 4.29 5.87 7.97 9.88 11.69 13.43 14.99	1.95 1.26 .79 .47 .35 .36 .38 .46	1234. 1231. 1229. 1229. 1231. 1231. 1231. 1236. 1213.
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000	• 725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 11.20 13.15 14.83 16.46 17.28	(SALT LAKE RIU,V) 4696 3158 .0999 .1825 .1325 .1503 .1823 .2286 .2759 .2904	CITY) MEAN V M/S .81 2.4846 -2.89 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31	M/5 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.18 20.56	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41	S.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.80 11.69 13.43 14.99	1.95 1.26 .79 .47 .35 .36 .38 .46 .55	1234. 1231. 1229. 1229. 1231. 1231. 1236. 1213. 1197.
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000	• 725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.12	DUGHAY S.D. U M/S 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.28 16.64	(SALT LAKE RIU, V) 4696 3158 .0989 .1825 .1503 .1823 .2286 .2759 .2904 .6846	CITY) MEAN V M/S .81 2.4846 -2.89 -4.11 -4.75 -5.67 -6.56 -7.26 -7.31 -7.31	M/S 3.71 6.48 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01	MEAN WS 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.55	S.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99	1.95 1.26 1.79 .47 .35 .36 .38 .46 .55	1234. 1231. 1229. 1229. 1231. 1231. 1231. 1231. 1213. 1213.
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000	- 725720 HEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.15	DUGHAY S.D. U M/S 2.01 2.76 4.97 9.15 1'.20 13.15 14.83 16.46 17.28 16.64 15.05	(SALT LAKE RIU.V) 4696 3158 .0989 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2846	CITY) MEAN V M/S .81 2.4846 -2.89 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31	M/5 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.18 20.56	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41	S.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.80 11.69 13.43 14.99	1.95 1.26 .79 .47 .35 .36 .38 .46 .55	1234. 1231. 1229. 1229. 1231. 1231. 1236. 1213. 1197.
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000	• 725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.12	DUGHAY S.D. U M/S 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.28 16.64	(SALT LAKE RIU, V) 4696 3158 .0989 .1825 .1503 .1823 .2286 .2759 .2904 .6846	CITY) MEAN V M/S .81 2.4846 -2.49 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -7.31 -6.59	M/S 3.71 6.48 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18	5.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99 15.58 i+.99	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57	1234. 1231. 1229. 1229. 1231. 1231. 1236. 1213. 1197. 1174.
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000	- 725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.15 22.15 21.12	DUGHAY S.D. U M/S 2.01 2.76 4.97 9.15 1.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50	(SALT LAKE RIU.V) 4696 3158 .0999 .1825 .1525 .1503 .1823 .2286 .2759 .2904 .2598	CITY) MEAN V M/S .81 2.48 -2.49 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -7.31 -6.54 -5.42 -4.68 -4.12	M/S 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28	S.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99 13.69 11.39 8.36	1.95 1.26 1.79 1.47 1.35 1.36 1.38 1.46 1.55 1.57 1.57 1.64 1.56 1.99 1.30	1234. 1231. 1229. 1229. 1231. 1231. 1226. 1213. 1197. 1174. 
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000 13.000 14.000 15.000 15.000 16.000	- 725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.15 21.12 19.62 17.83 15.65	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.29 16.64 15.05 12.50 10.47 8.89 8.01	(SALT LAKE RIU.V)46963158 .0989 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2846 .2740 .2598 .2316	CITY) MEAN V M/S .81 2.4846 -2.49 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -7.31 -6.54 -5.42 -4.68 -4.12 -3.76	M/S 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49	S.D. WS M/S 2.355 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99 15.58 14.99 15.58 17.69 11.34	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57 .57 .64 .56 .49	1234. 1231. 1229. 1229. 1231. 1231. 1226. 1213. 1197. 1179. 1145. 1119. 1119. 1119.
STATION 1 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000	- 725720  MEAN U  M/S  .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.12 22.15 21.12 19.62 17.83 15.65 13.06	DUGHAY S.D. U M/S 2.01 2.76 4.97 9.15 1.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50 10.47 8.89 8.01 7.16	(SALT LAKE RIU.V)46963158 .0999 .1825 .1503 .1825 .1503 .1823 .2286 .2759 .2904 .2546 .2740 .2598 .2316 .2599 .1659	CITY) MEAN V M/S .81 2.4846 -2.89 -4.11 -4.75 -5.67 -7.31 -7.31 -7.31 -6.54 -5.42 -4.68 -4.12 -3.76 -3.52	M/S 3.71 6.48 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49	S.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99 13.69 11.34 9.69 6.36 7.65 6.87	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57 .57 .57 .56 .49 .30	1234. 1231. 1229. 1231. 1231. 1231. 1236. 1213. 1197. 1174. 1174. 1145. 1119. 1119. 1119. 1119.
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 9.000 10.000 11.000 12.000 15.000 15.000 15.000 16.000 17.000 18.000 19.000	• 725720  MEAN U  M/S  .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.15 21.12 19.62 17.83 15.65 13.06 10.24	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50 10.47 8.89 8.01 7.16 6.45	(SALT LAKE RIU,V)46963158 .0999 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2846 .2740 .2598 .2316 .2259 .1699 .1093	CITY) MEAN V M/S .81 2.4846 -2.89 -4.11 -4.75 -5.67 -7.31 -7.31 -7.31 -7.31 -7.31 -7.31 -7.31 -3.52 -3.52 -3.22	M/S 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.18 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46	5.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99 13.62 11.34 9.69 8.36 7.65 6.16	1.95 1.26 1.79 1.47 1.35 1.36 1.38 1.46 1.55 1.57 1.67 1.69 1.30 1.30 1.30 1.30	1234. 1231. 1229. 1231. 1231. 1231. 1226. 1213. 1174. 
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 11.000 11.000 11.000 15.000 16.000 17.000 18.000 19.000	- 725720 HEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.15 21.12 19.62 17.83 15.65 13.06 10.24 7.65	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.28 16.54 15.05 12.50 10.47 8.89 8.01 7.16 6.95 5.99	(SALT LAKE RIU,V)46963158 .0989 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2946 .2740 .2598 .2316 .2259 .1699 .1093 .0667	CITY) MEAN V M/S .81 2.48 -2.46 -2.49 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -7.31 -7.4.69 -4.69 -4.69 -3.76 -3.52 -3.23	M/S 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04 5.11	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.23 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00	5.D. WS M/S 2.355 4.62 4.29 5.87 7.97 9.88 11.69 15.58 14.99 15.59 11.34 9.36 7.65 6.87 6.87 6.87	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57 .57 .64 .56 .49 .30 .30 .54 .70	1234 . 1231 . 1229 . 1229 . 1231 . 1226 . 1213 . 1197
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 13.000 14.000 15.000 15.000 16.000 17.000 18.000 19.000 20.000 20.000	- 725720 MEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.15 21.12 19.62 17.83 15.65 13.06 10.24 7.65 5.77	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50 10.47 8.89 8.01 7.16 6.45	(SALT LAKE RIU.Y)46963158 .0989 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2846 .2740 .2598 .2316 .2599 .1699 .1093 .0697 .0467	CITY) MEAN V M/S .81 2.4846 -2.89 -4.11 -4.75 -5.67 -7.31 -7.31 -7.31 -7.31 -7.31 -7.31 -7.31 -3.52 -3.52 -3.22	M/S 3.71 6.48 6.24 8.24 10.70 13.24 15.91 18.48 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.18 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46	5.D. WS M/S 2.35 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99 13.62 11.34 9.69 8.36 7.65 6.16	1.95 1.26 1.79 1.47 1.35 1.36 1.38 1.46 1.55 1.57 1.67 1.69 1.30 1.30 1.30 1.30	1234. 1231. 1229. 1231. 1231. 1231. 1226. 1213. 1174. 
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 11.000 11.000 11.000 15.000 16.000 17.000 18.000 19.000	- 725720 HEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.33 22.15 21.12 19.62 17.83 15.65 13.06 10.24 7.65	DUGHAY S.D. U M/S 2.01 2.76 4.97 9.15 1.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50 10.47 8.99 8.01 7.16 6.45 5.99 6.16	(SALT LAKE RIU,V)46963158 .0989 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2946 .2740 .2598 .2316 .2259 .1699 .1093 .0667	CITY) MEAN V M/S .81 2.4846 -2.49 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -7.31 -7.31 -7.31 -3.76 -3.52 -4.69 -4.12 -3.76 -3.52 -3.23 -3.41	M/S 3.71 6.48 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04 5.11	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.18 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00 8.69 8.69 8.43	S.D. WS M/S 2.355 4.62 4.29 5.87 7.97 9.88 11.69 15.58 14.99 15.58 17.65 6.87 6.16 5.59	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57 .64 .56 .49 .30 .30 .54 .70 .81 1.08 1.39 1.57	1234. 1231. 1229. 1231. 1231. 1231. 1226. 1213. 1174. 
STATION 3 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 21.000 22.000 23.000	- 725720 - MEAN U - M/S09 - 1.59 - 5.89 - 9.23 - 12.12 - 14.58 - 15.39 - 17.98 - 17.98 - 17.98 - 17.98 - 17.65 - 13.06 - 10.24 - 7.65 - 5.77 - 4.43 - 3.33 - 2.81	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.28 16.55 12.50 10.47 8.89 8.01 7.16 6.81 7.56 8.97	(SALT LAKE RIU.V)46963158 .0989 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2846 .2740 .2598 .2316 .2259 .1699 .1093 .0667 .010407411215	CITY) MEAN V M/S .81 2.48 -2.49 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -7.31 -7.31 -7.31 -7.31 -7.31 -7.31 -7.469 -4.69 -4.69 -4.12 -3.76 -3.52 -4.69 -4.11 -3.63	M/S 3.71 6.48 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04 5.11 4.54 4.55 4.55 4.55	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.24 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.00 8.69 8.25 8.43	5.D. WS M/S 2.355 4.29 5.87 7.97 9.88 11.69 15.59 13.69 13.69 11.34 9.69 6.87 6.158 5.30 5.45 5.45	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57 .57 .64 .56 .49 .30 .30 .54 .61 1.08 1.08 1.57 1.53	1234. 1231. 1229. 1229. 1231. 1231. 1226. 1213. 1197. 1174. 110. 1145. 1129. 1119. 1116. 1109. 1077. 1109.
STATION 1  Z  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 17.000 18.000 20.000 21.000 22.000 23.000 24.000	- 725720 - MEAN U - M/S09 - 1.59 - 5.89 - 9.23 - 12.12 - 14.58 - 16.34 - 17.68 - 17.32 - 22.15 - 21.12 - 19.62 - 17.63 - 15.65 - 13.06 - 10.24 - 7.65 - 5.77 - 4.43 - 3.33 - 2.81 - 2.50	DUGHAY S.D. U M/S 2.01 2.76 4.97 9.15 1.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50 10.47 9.89 8.01 7.16 6.45 5.99 6.16 6.81 7.56 8.47 9.63	(SALT LAKE RIU.V)46963158 .0989 .1825 .1325 .1503 .2286 .2759 .2904 .2846 .2740 .2598 .2316 .2259 .1699 .1093 .0667 .0104074112150767	CITY) MEAN V M/S .81 2.4846 -2.49 -4.75 -5.59 -7.26 -7.31 -7.31 -7.54 -5.42 -4.68 -4.12 -3.52 -3.23 -3.41 -3.63 -3.92 -4.51	M/S 3.71 6.48 6.24 10.70 13.24 10.72 118.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04 14.54 4.55 4.55 4.55 4.55	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00 8.69 8.69 8.43 8.91	S.D. WS M/S 2.355 4.62 4.29 5.87 7.97 9.88 11.69 15.58 i+.99 13.69 11.34 9.65 6.87 6.16 5.50 5.75 6.17	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57 .07 .64 .56 .49 .30 .54 .70 .81 1.08 1.39 1.57 1.53	1234. 1231. 1229. 1231. 1231. 1231. 1236. 1213. 1197. 1179. 1119. 1116. 1107. 1109. 1009. 1009. 953.
STATION : 2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 10.000 11.000 11.000 12.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 22.000 23.000 23.000 25.000 25.000 25.000	- 725720 - MEAN U - M/S09 - 1.59 - 5.89 - 9.23 - 12.12 - 14.58 - 16.34 - 17.65 - 21.33 - 22.15 - 21.12 - 19.62 - 17.83 - 15.65 - 13.06 - 10.24 - 7.65 - 5.77 - 4.43 - 3.33 - 2.81 - 2.50 - 2.14	DUGHAY S.D. U M/S 2.01 2.76 4.97 9.15 1.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50 10.47 8.89 8.01 7.16 6.45 5.99 6.16 6.81 7.56 8.47 9.63 10.60	(SALT LAKE RIU.V)46963158 .0999 .1825 .1503 .1825 .1503 .1823 .2286 .2759 .2904 .2946 .2740 .2598 .2316 .2259 .1699 .1093 .0667 .01040741121507670331	CITY) MEAN V M/S .81 2.4846 -2.89 -4.11 -4.75 -5.67 -7.31 -7.31 -7.31 -6.59 -3.76 -3.52 -4.68 -4.18 -3.76 -3.52 -3.63 -3.92 -4.18 -4.76	M/S 3.71 6.24 8.24 10.70 13.24 15.91 18.48 20.18 20.16 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04 5.11 4.54 4.55 4.54 5.45 5.45	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00 8.69 8.25 8.91 9.90 11.00	S.D. WS M/S 2.355 4.62 5.87 7.97 9.88 11.69 13.49 15.58 14.99 13.39 9.365 6.87 6.87 6.16 5.50 5.75 6.173 6.95	1.95 1.26 1.79 1.47 1.35 1.36 1.38 1.46 1.57 1.57 1.64 1.70 1.81 1.08 1.39 1.57 1.53 1.19	1234. 1231. 1229. 1231. 1231. 1231. 1226. 1213. 1174. 1174. 1175. 1119. 1119. 1119. 1116. 1105. 1034. 1077. 1074. 1011. 1004. 953.
STATION 3  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 21.000 23.000 24.000 25.000 25.000 26.000	- 725720 HEAN U M/S .09 1.59 5.89 9.23 12.12 14.58 16.34 17.98 19.76 21.12 22.15 21.12 19.62 17.83 15.65 13.06 10.24 7.65 5.77 4.43 3.33 2.81 2.58	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.28 16.54 15.05 12.50 10.17 8.89 8.01 7.16 6.81 5.99 6.16 6.81 7.56 8.47 9.63 10.60 12.00	(SALT LAKE RIU, V)46963158 .0999 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2946 .2740 .2598 .2316 .2259 .1699 .1093 .0667 .01040741121507670391 .0584 .1875	CITY) MEAN V M/S .81 2.48 -2.69 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -6.54 -5.46 -3.76 -3.22 -3.23 -3.41 -3.69 -4.18 -4.51 -4.51 -4.51	M/S 3.71 6.48 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04 5.11 4.54 4.51 4.51 4.51 4.51 4.51 6.01	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00 8.69 8.25 8.91 9.90 11.00 12.27	5.D. WS M/S 2.355 4,62 4,29 7,97 9.88 11.69 13.69 13.69 11.34 9.36 6.87 6.87 6.87 6.16 5.59 5.75 6.14 6.73 6.73	1.95 1.26 1.79 1.47 1.35 1.36 1.38 1.46 1.57 1.57 1.64 1.69 1.30 1.30 1.30 1.43 1.19 1.10	1234. 1231. 1229. 1229. 1231. 1231. 1236. 1213. 1174 1174 1179. 1119. 1119. 1110. 1109. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077.
STATION :  2 KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 17.000 18.000 20.000 21.000 22.000 23.000 24.000 25.000 26.000 27.000	- 725720 - MEAN U - M/S09 - 1.59 - 5.89 - 9.23 - 12.12 - 14.58 - 15.39 - 17.98 - 17.98 - 17.98 - 17.98 - 17.65 - 13.06 - 10.24 - 7.65 - 5.77 - 4.43 - 3.33 - 2.50 - 2.14 - 2.50 - 2.15 - 2.33 - 3.34	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.29 16.64 15.05 12.50 10.47 8.89 8.01 7.16 6.81 7.16 6.81 7.56 8.47 9.63 10.60 12.00 13.60	(SALT LAKE RIU.Y) 46963158 .0989 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2846 .2740 .2598 .2316 .2259 .1699 .1093 .0657 .01040741121507670391 .0584 .1875	CITY) MEAN V M/S .81 2.48 -2.49 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -7.3	M/S 3.71 6.84 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 10.37 8.80 7.34 6.04 5.11 4.54 4.55 4.55 4.56 6.04 5.45 6.04	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00 8.69 8.69 9.90 11.00 12.27 13.43	S.D. WS M/S 2.355 4.62 4.29 5.87 7.97 9.88 11.69 13.43 14.99 15.58 14.99 8.36 7.65 6.16 5.30 5.45 6.73 6.93	1.95 1.26 1.79 1.47 1.35 1.36 1.38 1.46 1.55 1.57 1.64 1.56 1.49 1.108 1.108 1.19 1.101 1.29	1234. 1231. 1229. 1229. 1231. 1231. 1236. 1213. 1174 1145. 1179. 1119. 1116. 1109. 1077. 1094. 1011. 1004. 953. 855. 819. 619.
STATION 3  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 23.000 24.000 25.000 25.000 26.000	- 725720 - MEAN U - M/S09 - 1.59 - 5.89 - 9.23 - 12.12 - 14.58 - 16.34 - 17.65 - 21.12 - 19.62 - 17.63 - 15.65 - 13.06 - 10.24 - 7.65 - 5.77 - 4.43 - 3.33 - 2.14 - 2.50 - 2.14 - 2.50 - 3.34 - 2.33	DUGHAY S.D. U M/S 2.01 2.76 4.97 9.15 1.20 13.15 14.83 16.46 17.28 16.64 15.05 12.50 10.47 8.89 8.01 7.16 6.45 5.99 6.16 6.81 7.56 8.47 9.63 10.60 12.60 13.60	(SALT LAKE RIU, V)46963158 .0999 .1825 .1325 .1503 .1823 .2286 .2759 .2904 .2946 .2740 .2598 .2316 .2259 .1699 .1093 .0667 .01040741121507670391 .0584 .1875	CITY) MEAN V M/S .81 2.48 -2.69 -4.11 -4.75 -5.67 -6.59 -7.26 -7.31 -6.54 -5.46 -3.76 -3.22 -3.23 -3.41 -3.69 -4.18 -4.51 -4.51 -4.51	M/S 3.71 6.48 6.24 10.70 13.24 15.91 18.48 20.18 20.56 19.01 16.65 13.70 11.88 10.37 8.80 7.34 6.04 5.11 4.54 4.51 4.51 4.51 4.51 4.51 6.01	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00 8.69 8.25 8.91 9.90 11.00 12.27	5.D. WS M/S 2.355 4,62 4,29 7,97 9.88 11.69 13.69 13.69 11.34 9.36 6.87 6.87 6.87 6.16 5.59 5.75 6.14 6.73 6.73	1.95 1.26 1.79 1.47 1.35 1.36 1.38 1.46 1.57 1.57 1.64 1.69 1.30 1.30 1.30 1.43 1.19 1.10	1234. 1231. 1229. 1229. 1231. 1231. 1236. 1213. 1174 1174 1179. 1119. 1119. 1110. 1109. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077. 1077.
STATION 1  Z  KM 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 20.000 21.000 22.000 25.000 26.000 27.000 28.000 28.000	- 725720 - MEAN U - M/S09 - 1.59 - 5.89 - 9.23 - 12.12 - 14.58 - 15.39 - 17.98 - 17.98 - 17.98 - 17.98 - 17.65 - 13.06 - 10.24 - 7.65 - 5.77 - 4.43 - 3.33 - 2.50 - 2.14 - 2.50 - 2.15 - 2.33 - 3.34	DUGHAY S.D. U M/S 2.01 2.76 4.97 6.94 9.15 1'.20 13.15 14.83 16.46 17.29 16.64 15.05 12.50 10.47 8.89 8.01 7.16 6.81 7.16 6.81 7.56 8.47 9.63 10.60 12.00 13.60	(SALT LAKE RIU.V)46963158 .0989 .1825 .1503 .1825 .2266 .2759 .2904 .2846 .2740 .2598 .2316 .2259 .1699 .1093 .0667 .0467 .01040741121507670391 .0584 .1875	CITY)  MEAN V  M/S .81 2.4846 -2.89 -4.75 -5.67 -7.31 -7.31 -7.54 -5.42 -4.68 -4.176 -3.52 -3.23 -3.63 -3.92 -4.18 -4.76 -4.76 -4.97 -4.97 -5.41	M/S 3.71 6.24 8.24 10.70 13.24 15.91 18.48 20.56 19.01 16.65 19.01 11.88 10.37 8.00 7.34 6.04 5.11 4.54 4.55 4.55 4.55 4.55 6.01 5.45 6.01 6.02 6.03 6.04 6.04 6.04 6.04 6.04 6.04 6.04 6.04	MEAN WS M/S 3.60 6.07 8.95 13.23 17.27 20.93 24.26 27.34 29.94 31.41 30.52 29.18 26.28 23.74 21.25 18.49 15.52 12.46 10.00 8.69 8.69 8.69 9.90 11.00 12.27 13.43	S.D. WS M/S 2.355 4.62 4.29 5.87 7.97 9.88 11.69 15.58 i+.99 15.58 i+.99 13.69 6.87 6.16 5.50 5.75 6.17 6.73 8.93	1.95 1.26 .79 .47 .35 .36 .38 .46 .55 .57 .57 .57 .57 .64 .56 .49 .30 .30 .54 .70 .81 1.08 1.39 1.57 1.53 1.43 1.19 1.10 1.29 1.15	1234. 1231. 1229. 1231. 1231. 1231. 1236. 1213. 1197. 1174. 1175. 1179. 1119. 1110. 11077. 1077. 1074. 1004. 953. 855. 819. 619. 534.

TABLE STATION	1. 13 • 785720		ISTICAL PA			Al	MUAL		
Z	MEAN U	5.D. U	R(U.V)	MEAN V	S.D. V	MEAN HS	S.D. WS	SKEW WS	NOBS
KH1	M/S	M/S		H/S	M/S	H/3	M/S	- 1211 212	
1.288	07	2.33	4091	.57	4.16	4.24	2.26	:.60	14499.
2.000	1.21	2.69	2784	1.74	6.11	5.64	4.16	1.31	14468.
3.000	4.22	4.30	.0054	. 89	5.87	7.36	4.17	. 93	14458.
4.000	<b>6</b> .79	5.96	.0409	. 30	7.62	10.54	5.35	.60	14445.
5.000	8.97	7.81	.0426	. 09	9.84	13.65	7.21	.61	14450
6.000	10.89	9. 55	.0659	14	11.79	16.34	9.05	. 70	1545: .
7.000	12.55	11.13	.0920	40	13.73	18.92	10.65	. 76	14417.
0.000	13.89	12.58	. 1241	60	15.58	21.26	11.94	. 79	14309
9.000	15.40	13.85	. 1605	75	17.10	23.51	12.99	.80	14211.
10.000	16.97	14.41	. 1706	75	17.62	25.09	13.30	.74	140:0.
11.000	18.28	14.08	. 1661	56	16.94	25.61	12.62	.64	13820
12.000	18.93	12.93	. 1548	25	15.29	24.93	11.76	. 58	13757.
13.000	18.32	11.07	.1416	. 09	13.06	22.94	10.13	.49	13668.
14.000	16.67	9.28	.0947	. 19	11.07	20.31	8.61	.41	13593.
15.000	14.46	7.90	.0319	. 15	9.38	17.45	7.42	. 44.1	13547.
16.000	11.68	7.11	0510	10	7.74	14.35	6.76	.66	13519.
17.000	9.36	6.44	1210	38	6.22	11.19	6.09	.91	13430.
:B.000	5.34	6.00	1343	66	5.07	8.54	5.43	1.16	13437
19.000	4.09	5.68	1303	96	4.20	6.75	4.68	1 46	13358.
20.000	2.30	5.64	1352	-1.17	3.64	5.83	4.14	1.77	13240.
21.000	1.02	5.86	1308	~1.34	3.35	€.73	3.95	1.94	13014.
<b>2</b> 2.000	. 04	6.19	1334	-1.48	3.26	5.93	4.00	2.03	127+3
23.000	49	6.70	1075	-1.61	3.15	6.29	4.25	1.94	12425.
24.008	-1.02	7.37	0554	-1.67	3 34	5.95	4.60	1.75	12137.
25.000	~1.28	8.09	.0121	-1.71	3.50	7.58	4.98	1.61	11520.
26.000	~1.14	9.04	.0827	-1.76	3.73	€.33	5.55	1.57	10767.
27.000	-1.37	10.01	. 1154	-1.69	3.89	9.14	6.04	1.63	9101.
SB . COO	-1.05	10.71	. 1601	-1.72	4.23	9.15	6.46	1.58	8394.
29.000	-1.91	11.62	.1511	-1.36	4.29	10.59	6.85	1.67	4054
30.000	64	12.79	.1817	-1.40	4.68	11.31	7.74	1.73	÷134

NOBS P NOBS 1
SKEM D NOBS
0 S.D. D 6/H3
T MEAN D
T SKEW T
7 S.D. 7 NEG K
20 X

TABLE	11. 2	THE HATOUNA	MIC STATIS	STICAL PAR	AMETERS,		RUARY					
STATION	725720	DUGMAY	CSALT LAKE	CITY								
7	EA P	S.D. P	SKEN P	MEAN 1	5.0. ₹	SKEH 1	AEAN D	S.D. D	SKET D	MOBS P	¥2885 1	NOBS D
ξ	₽	4		DEG K	DEG K		6/M3	G/M3				
000	1022.3000	9.5469	03	292.23	86 98	_	260.0000	49.8100	99.	1001	1001	1831.
1.000	904.6100	6.9973	.36	276.69	5.42	_	137.0000	30.7900	ň.	1001	1001	1001
- 38 -	872.9900	6.6068	39	275.00	5.93		104.0000	27.0300	ĸ.	1129.	<u>.</u>	- 52 -
2.000	799.0100	6.0621	1.43	272.06	5.15	_	055.0000	19.8500	.05	139	23	1129
3.000	703.9300	5.9923	٠. چ	265.66	ري م	_	922.3000	15.8200	ģ	1.39	<u>2</u>	1129.
\$.000	618.2600	6.4060	. 8 <u>.</u>	259.95	5.27		828.20c0	11.7500	.57	1129.	23 28	1129.
3.000	541.4300	6.8746	55	253.67	5.38		743.3000	9.3140	5	1129.	£	1.29
9.000	472.5000	7.2102	ĸ.	246.80	5.47	_	<b>566.8000</b>	7.4320	.35	1128.		1128.
7.000	410.E600	7.3665	29	239.50	5.45	_	597.3000	6.0620	80.	1128.	28 21	1128.
9. Pho	355. 5±00	7,4345	8	45.050	ر ح	_	533. 40n0	5 1420	ı G	1127.	1127.	1127.
9.000	306.3500	7.1618	83	225.20	<u>.</u>	_	473.9000	7.2640	-1.33	1.26.	28 28	1186.
10.000	262.7700	6.4861	60	219.40	3.67	_	417.3000	10.8800	-1.19		23 33	1125.
11.000	224.8100	5.4673	.07	216.24	5.17		362.5000	14.3100	35.	1123.	1123.	1123.
12.000	192.0400	4.3678	<del>ک</del> .	216.21	6.43	_	309.8000	0040.41	55.	1117.	1117.	1117.
13.000	164.1500	3.4375	. 28	217.29	9.G	_	263.4000	9.8090	<b>.</b>	1112.	1112.	:112.
14.000	140.3400	2.7114	8e.	216.82	3.81	_	225.6000	7.0660	. 33	1107.	1107.	1107.
15.000	119.9200	2.2267	ř.	215.37	ы Ж.	_	194 . 1000	6.0130	.35	1105.	1.05	1105.
16.000	102.3800	. 7±81	97.	214.11	3.98	_	166.7000	5.1340	04.	1103.	1103.	1103.
17.000	87.3120	1.3806	60.	213.31	3.38	_	142.7000	4.1430	.55	1090.	1090	1090
18.000	74.4560	1.1108	-05	213.06	3.7g	_	121.8000	3.1070	Ç4.	1083.	1083.	1083.
19.000	63.5050	. 9529	3.	213.31	3.56		103.7000	2.2360	Ķ	1070.	1070.	1070.
20.030	54.1570	. 6320	å	213.82	3.59		88.2700	1.6800	51.	1055.	1055.	1055.
≥1.000	16.2400	. 7567	01.	214.31	3.72	_	75.1800	1.2810	50.	1011.	1011.	101
22.000	39.4890	.697	=	214.87	3.86	_	64.0300	1.0280	15	.986	988	986
23.000	33 7420	.6545	=	215.51	3.86	_	54.5500	7 H C B .	8	.996	966	366.
%.000 ₹	28.8470	.6145	.10	216.23	3.97		46.4730	.7138	35	951.	951.	6
25.000	24.6850	1575.	<u>0</u>	217.12	٠, 02	_	39.6100	.6430	103.	914.	914	914.
25.000	21.1400	.5356	51.	218.08	= ;	_	33.7700	.5897	٠.5	. 498	864	- - - - - - - - - - - - - - - - - - -
27.000	18.1210	576h.	£1.	219.17	4.16		28.8000	5427	٠. تو.	764.	76¥.	764
28.000	15.5430	. 4585	61.	220.28	æ. Ø.		24.5800	1,10.	.51	.689	683	689
29.000	13.3510	2 +1. 4624.	<u>+</u>	721.44	4,43	02	21.0000	.4738	L+	581.	581.	581.
34,000	0504,11	38.38	ż	èc: 73	30,00		17.9430	9/54	13	451	157.	E.

	2	11. 3	THERMODYNA	MIC STATIS	TICAL PAR	METERS,	£	MARCH					
He	•	HEAN P		SKEM P	PEAN T	5.0.1	SKEE 1	HEAN D	8.0.0	SKEH D	A SBON	NOBS 1	NOBS D
1016 + 000		2			DEG K	DEG K		G/M3	6/H3				
991.2100 6.707315 280.60 7.1525 1117.0000 28.380 0.06 1205. 1205. 1205. 206.900 5.967329 274.09 5.79 1.15 1012.0000 28.380 0.07 31.85.0 1231. 1231. 1231. 1231. 1232. 206.900 7.2100 7.210 7.210 7.22 226.81 5.8506 510.00 1.900 7.900 7.39 1231. 1231. 1231. 471.370 7.22 2.22 7.12 2.22 2.24 7.55 665.500 6.900 7.39 12.31 1231. 1231. 471.370 7.22 2.22 7.22 2.22 7.25 665.500 6.900 7.39 12.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.	_	016.4000	9.1261	80.	287.51	9.55	01.	1229.0000	48.0100	.20	12051	1205.	1205.
670.04.00         6.9413        21         778.62         6.71         .26 1080         .03         1232.		931.100	6.7073		280.60	7.15	ĸ	1117.0000	31.8600	90.	1205.	1205.	1205.
706. 9900         5.994        29         57.9         -15 1012.0000         21 11800        07         1231.         1231.           706. 9900         6.39841        29         566.81         5.66        06         916.7000         21 1800        07         1231.         1231.           707. 5500         6.3734        12         253.92         5.27        55         741.5000         8.7820         88         1231.<		670.0400	6.3413	2	278.62	6.71	Ķ	1086.0000	29.3800	.03	1232.	1232.	1232.
702-8500 5.984122 266.81 5.6606 916.7000 116.8100 .30 1231. 1231. 94.1 3500 6.672212 265.34 5.3325 741.8000 11.9000 .54 1231. 1231. 1231. 471.9700 7.2100117 247.02 5.34 6.36 5.4055 665.000 11.9000 6.4 1231. 1231. 1231. 471.9700 7.2100 7.2100119 262.33 6.54 6.56 6.000 10.900 6.40 1231. 1231. 1231. 471.9700 7.2100 7.23013 239.68 5.4055 665.000 4.731059 1226. 1232. 323.68 5.4055 665.000 10.7400159 1226. 1232. 323.68 5.4055 665.000 10.7400159 1226. 1232. 323.68 5.4016 532.600 10.7400 -1.25 1227. 1237. 1231		796.990n	5.9673	29	274.09	5.79	. 15	1012.0000	21.1800	.0	1531.	1231.	1231.
617.350 6.3735 -1.13 260.35 5.3336 685.6000 11.9000 .64 1231. 1		702.6500	5.98*1	22	266.91	5.66	06	916.7000	16.8100	.30	1231.	1231.	1231.
540, 1700         6,6722         - 12         253.92         5,27         - 552.70         88720         1831         1831         1831           410, 2700         7,2100         - 17         247,025         5,40         - 155         665,5000         6,9820         1831         1831         1831           410, 2700         7,4574         - 25         222.34         4,990         - 16         582,6000         4,7310         - 59         1226         1831           410, 2700         7,4574         - 25         222.34         4,990         - 16         582,6000         4,7310         - 59         1226         1236           266, 100         6.3771         - 09         - 16         582,6000         4,7310         - 18         1226         1226           266, 100         6.3771         - 09         - 17         20.00         1,7310         - 18         1226         1226           266, 100         6.3771         - 09         - 16         582,6000         1,7310         - 1,23         1226         1226           266, 100         6.3711         20         1,730         26         1,130         26         1,130         26         1,130         26         1,130		617.3500	6.3735	- 13	260.35	5.33	36	825.6000	11.9000	φ	1231.	1231.	1231.
471. 9700         7.2100         -1.7         247.02         5.40        55         665.2000         6.59820         -80         1831.         1231.           49.0. 2300         7.3543        13         23.46        16         556.2000         6.5970         -43         1227.         1227.           49.0. 2300         7.433        19         225.33         4.13         0.7         473.3000         6.6880         -1.59         1226.         1227.		540.7300	6.8722	12	33.88	r. G	55	7*1.5000	8.7620	88.	1231.	1231.	1231.
4410, 2300         7,3543         -,23         239, 68         5,48         -,50         596, 2000         5,5970         -,43         1227, 1227         1226, 1228         1328, 1227         143, 1330         -,15         232, 33         4,13         -,16         532, 500         4,1330         -,159         1226, 1228         1228, 1223         1228, 1223         1228, 1223         1228, 1223         1228, 1223         1228, 1223         1228, 1223         4,13         -,16         5000         4,1350         -,129         1228, 1223		471.9700	7.2100	17	247.02	5.40	55	665.5000	6.9820	<b>6</b> 6	1231.	1231.	1231.
355.2400         7,4574         -,25         232.34         4,99         -,16         532.6000         4,7310         -,59         1226.         1226.           266.1200         7,1330         -,19         2253.33         4,13         ,07         473.3000         6.6860         -1,29         1226.		410.2300	7.3543	23	239.68	5.48	50	596.2000	5.5370	£4.	1227.	1227.	1227.
306.1200         7.2130        19         225.33         4.13         .07         473.3000         6.9680         -1.59         1226.         1276.           254.5100         6.5371        04         219.73         3.39         .26         416.4000         10.700         -1.22         123.         1223.           254.5100         6.5371        04         219.73         3.39         .26         416.4000         10.700         -1.82         123.         123.           194.000         5.3056         .19         216.61         5.04        65         253.000         10.100        10         1211.         <		355.2400	7.4574	ŗ.	232.34	<b>8</b> 6.	16	532.6000	4.7310	59	1226.	1226.	1226.
262-6100         6-5371         -, 04         219.73         3.39         -, 26 416.4000         10.7400         -1.22         1223.         1223.           224, 7200         5, 4930         .11         216.76         4, 75         .51         361.4000         14.1500         -, 46         1219.         1219.           164, 1700         3, 435         .15         217.61         5.04         -, 17         5.05.000         10.1000         .20         1219.         1219.           164, 1700         3, 55         .16         10         -, 18         225.2000         10.030         .27         1206.         1219		306.1200	7.2130	19	225.33	4.13	.07	473, 3000	6.9580	-1.59	1226.	1236.	1286.
224, 7200         5,4930         11         216,76         4,75         151,361,4000         14,1500         -4,46         1219         1219           194, 10,000         4,3356         119         216,643         6,13         -1,7         535,200         14,2500         .22         1215         175           194, 1000         2,5667         111         217,26         3,81         -1,94         165,100         27         1208         1211         175           190, 4000         2,5667         111         217,26         3,81         -1,94         165,100         27         1208         1108 <td< td=""><td></td><td>262.6100</td><td>6.5371</td><td><b>5</b>,</td><td>219.73</td><td>3.39</td><td>8</td><td>416.4000</td><td>10.7400</td><td>-1.22</td><td>1223.</td><td>1223.</td><td>1223.</td></td<>		262.6100	6.5371	<b>5</b> ,	219.73	3.39	8	416.4000	10.7400	-1.22	1223.	1223.	1223.
194.0,000    1,3356		224.7200	5.4930	=	216.76	£.7	ž.	361.4000	14.1500	94.	1219.	1219.	1219.
164,1700         3,2673         .15         217,61         5,04        65         263,0000         10,1100         .60         1211         1211.		194.0500	4.3036	61.	216.65	6.13	17	23.2.200n	14.6550	17.	ij	.;	<u></u>
140,4000   2,5667   11   217.26   3.81   -1.18   225,2000   7,0030   2,27   1208.   1208.   1208.   1209.		164.1700	3.2673	2	217.61	ż ń	65	263.0000	10.1100	.60	1211.	1211.	1211.
120.0100         2.0355         .05         216.11         3.54        04         193.5000         \$.5950         .22         1202.         1202.           102.5100         1.5988        10         215.12         3.57        28         146.1000         4.6020         .35         1197.         1197.           74.7010         1.6392        47         214.41         3.06         -45         121.4000         2.0150         .34         1189.         1197.           74.7010         1.6392        47         214.44         2.08         -4.5         121.400         2.0150         .34         1189.         1197.		140.4000	2.5667	=	217.26	3.81	18	225.2000	7.0030	75.	1209.	1208.	1208.
102-5100         1,5998        10         215.12         3.57        28         166.1000         4.6020         .35         1197.         1197.           87-5990         1,2792        29         214.64         3.38        38         142.1000         3.5950         .34         1189.         1189.           74,010         1,2792        29         214.64         3.08        45         121.000         2.7020         .34         1189. <td< td=""><td></td><td>120.0100</td><td>2.0355</td><td>.05</td><td>216.11</td><td>đ, m</td><td>₹ -</td><td>193.5000</td><td>5.5950</td><td>55.</td><td>1202.</td><td>1202.</td><td>. <del>2</del>05.</td></td<>		120.0100	2.0355	.05	216.11	đ, m	₹ -	193.5000	5.5950	55.	1202.	1202.	. <del>2</del> 05.
87.5090         1.2752        29         214.64         3.38        38         142.1000         3.5950         34         1189.         1189.           74.7010         1.0392        47         214.41         3.06        45         121.4000         2.7020         .36         1179.         1179.           54.7020         1.0392        47         214.41         3.06        45         121.4000         2.7020         .36         1179.         1179.           54.4480         1.382        73         214.84         2.82        33         80.00         1.5140        03         1159.         1159.         1159.           54.4480         1.382        75         214.84         2.82        35         1150         1159.         1159.         1159.           39.7460         56.10         2.95         1.1         64.1100        319        27         1085.         1085.         1085.           29.7460         55.10         2.1         2.95         2.1         64.1100        319        27         1085.         1085.         1085.           29.7460         55.1         2.2         2.9         2.9         2.9         2.9 <td></td> <td>102.5100</td> <td>1.5998</td> <td>01</td> <td>215.12</td> <td>3.57</td> <td>28</td> <td>166.1000</td> <td>4.6020</td> <td>35</td> <td>1197.</td> <td>1197.</td> <td>1197.</td>		102.5100	1.5998	01	215.12	3.57	28	166.1000	4.6020	35	1197.	1197.	1197.
74, 7010 1, 0292 -, 47 214, 41 3, 06 -, 45 121, 4000 2, 7020 , 26 1179,		87.5090	1.2752	29	214.04	3.38	38	142.1000	3.5950	ž.	1189.	1189.	1189.
63.7790         Gewl        61         214.48         2.88        5         103.6000         2.0150         .11         1165.         1165.           54.4480         .7382        73         214.84         2.82        33         88.3000         1.5140        03         1154.         1165.           45.5070         .7382        75         215.40         2.85        09         75.200         1.5150        27         1164.         1165.           39.7460         .5945        65         216.01         2.95         .10         7.20         1.095.         1097.         1077.           29.0740         .5019        67         216.69         2.96         .20         54.600         .378        70         1059.         1059.           29.0740         .5019        77         217.35         3.12         .23         46.600         .5039        97         1079.         1079.           21.3190         .4319        26         219.10         3.32         .23         33.900         .5035         -1.27         939.         939.           21.5699         .26         .21         3.22         .23         33.900         .5035		74. 7010	1.0292	L#	214.415	3.06	1,43	121.4000	2.7020	Ą.	1179.	1179.	1179.
54,4480         .7382        73         214,84         2.82        33         88.3000         1.5140        03         1154.         1154.         1154.           46,5070         .6610        75         215,40         2.85        09         75,2200         1.1550        28         1107.         1107.           33,3460         .5445        65         216.01         2.95         .11         64,1100         .40319        27         1005.         1005.           33,940         .5019        47         217.35         3.12         .23         46,600         .6378        40         1059.         1045.           24,080         .4619        47         217.35         3.12         .18         39.700         .5573        97         1045.         1045.           24,080         .4319        20         219.10         3.52         .23         33.900         .5035         -1.27         939.         939.           21,3190         .4319        20         219.10         3.52         .23         33.900         .5035         -1.27         939.         939.           13,4890         .352         .36         .29         24,7000 <td></td> <td>63.7790</td> <td>1498</td> <td>61</td> <td>84.415</td> <td>. 88 9</td> <td>51.1</td> <td>103.6000</td> <td>2.0150</td> <td>=</td> <td>1165.</td> <td>1165.</td> <td>1165.</td>		63.7790	1498	61	84.415	. 88 9	51.1	103.6000	2.0150	=	1165.	1165.	1165.
46,5070         .6610        75         215.40         2.85        09         75,2200         1.1550        28         1107.         1107.           39,7460         .5945        65         216.01         2.95         .11         64,1100         .9319        27         1085.         1085.           29,7460         .5472        57         216.69         2.96         .20         54.640         .7403        40         1059.         1059.           29,740         .519        47         217.35         3.12         .23         46.600         .378        68         1045.         1059.           21,3190         .4319        27         218.13         3.32         .18         39.700         .5573        97         1007.         1007.           21,3190         .4319        20         219.10         3.52         .23         33.9000         .5573         -1.27         939.         930.           18,2890         .3559        10         220.25         3.69         .28         28.9300         .405         -1.59         84.6         84.6           15,6990         .3569         .36         .29         24,7000         .3831		54.4480	. 7382	73	214.94	89.≥	33	88 3000	1.5140	03	1154.	<u>.</u>	1.04.
39.7460 594565 216.01 2.95 .11 64.1100 931927 1085. 1085. 23.9870 5.97 2.16.69 2.96 2.96 2.00 24.00 7.40340 1095. 1095. 23.9870 5.09 2.040 7.40340 1059. 1059. 205		46.5070	0199	57.	215.40	ر. 95	60	75.2200	1.1550	۰ .ک	1107.	1107.	1107.
33.9870 547257 216.69 2.96 .20 54.6400 .740340 1059. 1059. 1059. 29.0740 .501947 217.35 3.12 .23 46.6000 .637858 1045. 1045. 29.0740 .431920 219.10 3.52 .23 33.9000 .5035 -1.27 939. 939. 29.3190 .431920 219.10 3.52 .23 33.9000 .5035 -1.27 939. 939. 16.2890 .395910 220.25 3.69 2.8 28.9300 .4567 -1.58 846. 846. 15.8990 .3520 .4567 -1.58 846. 846. 11.84970 .3512 .19 222.74 3.83 2.4,7000 .3603 .2.13 6.4.10 .21 18.0300 .351321 624. 624.		39.7460	.5945	65	216.01	ر. 89	=	64.1100	9319	27	1085.	1085.	1085.
29.0740         .5019        47         217.35         3.12         .23         46.6000         .6378        68         1095         1095         1095           24.8830         .4639        35         218.13         3.32         .18         39.700         .5573        97         1007         .1007           21.3190         .4319        20         219.10         3.52         .23         33.9000         .5035         -1.27         939         939           18.2893         .3959        10         220.25         3.69         .28         28,9300         .467         -1.58         846.         846.         846.           15.6990         .3650         .17         221.46         3.78         .29         24,7000         3831        44         744.         744.           13.4870         .3312         .19         .222.74         3.83        21         624.         624.         624.         624.         624.         624.         625.         705.         625.         705.         625.         705.         705.         705.         705.         705.         705.         705.         705.         705.         705.         705.         705.		33,9870	57.42.	57	216.69	86. 86.	. 20	54.6400	.7403	04	1059.	1059.	1059.
24,8820         .4639        35         218.13         3.32         .18         39.7%00         .5573        97         1007         .1007           21,3190         .4319        20         219.10         3.52         .23         33.9000         .5035         -1.27         939         939.           18,2890         .3959        10         220.25         3.69         .28         28,300         .4657         -1.58         84%.         846.           18,2890         .3650         .378         .29         24,7000         .3831        44         744.         744.           13,4870         .3312         .19         .222.74         3.83         .23         21,0300         .3603        21         624.         624.           11,6180         .30.8         .17         .224.46         4.10         .21         18,0300         .3613        21         624.         625.		29.0740	5019	74	217.35	3.12	.23	46.5000	6378	- 68	1045	1045.	1045.
21.3190 .431920 219.10 3.52 .23 33.9000 .5035 -1.27 939. 939. 18.2890 .395910 220.25 3.69 .28 28.9300 .4557 -1.58 846 .866. 846. 15.6990 .3620 .17 221.46 3.78 .29 24.7000 .383144 744, 744, 744, 13.487 .19 222.74 3.83 .21 18.0300 .360321 624, 624, 625, 626, 626, 626, 626, 626, 626, 626		2.8e30	.4639		218.13	3.32	18	39.7.00	.5573	97	:001	.001	1007
18.2893 395910 220.25 3.69 28 28.9300 4567 -1.58 846. 846. 846. 15,6990 3620 17 221.46 3.78 29 24,7000 383144 744. 744. 13.4870 331221 624. 624. 624. 11.5180 36.8 17 224.46 4.10 21 18.0300 35.1329 505. 505.		21.3190	4319	20	219.10	3.55	.23	33.9000	.5035	-1.27	939.	939.	933.
15.6990 3620 .17 221.46 3.78 .29 24.7000 .383144 744, 744, 13.4870 .3312 .19 222.74 3.83 .23 21.0900 .360321 624. 624. 624. 11.6180 .301329 505. 505.		18.2893	. 3959	10	250.022	3.69	88	28.9300	.4567	-1.58	9 40.	9.to	846.
13.4870 .3312 .19 222.74 3.83 .23 21.0900 .360321 624. 624. 11.6180 .3038 .17 224.46 4.10 .21 18.0300 .361329 505. 505.		15.6990	. 3620	.17	221.46	3.78	ę,	24.7000	. 3831	<b>3</b>	, \$	754	***
11.6180 3058 .17 224.46 4.10 .21 18.0300 .351329 505. 505.		13.4870	. 3312	61.	222.74	3.83	.23	21.0300	.3603	1	₩29	52€.	624.
		11.6180	30∺8	۲.	34.46	£.10	15.	18.0300	3513	29	505.	505.	17.55.

TABLE	1 . F	THERMOCYNAMIC STATISTICAL PARAMETERS.	MIC STATE	STICAL PAR	AYETERS.	•	APR I L					
STATIO	7	DUGWAY	(SALT LAK	E C117)								
7		S.0. P	SKEW P	ME AN 1	5.0.1	SKEW 1	EA O	5.0.0	SKEM D	N085 P	NO85 1	0 S80N
ξ		æ		DEG K	DEG K		G/M3	G/M3				
90.	_	<b>9.5</b> 07₩	10	292.08	9.58	.26	1205.0000	46.7500	05	1178.	1178.	1178.
1.000		6.22!	19	584.69	7.40	<i>3</i>	1099.0000	31.0400	۰. و	1178.	1.78	1178.
- 288 - 288		5 9082	25	285.66	9. 9.	.47	1069. n000	27.6300	٠	1<02.	1202.	1202.
2.000		5.6028	26	78.77.8	5.7	.33	997.9000	20.0800	æ.	1202.	1202.	1202.
3.000		5.6179	23	270.06	5.46	.18	907.0000	15.9300	02	1202.	1202.	1205.
4.000		5.9713	12	262.95	5.05	13	819.5000	11.5800	ř.	1202.	1202.	:205.
5.000		6.3499	- 09	256.14	4	39	738.4000	8.4110	.65	1202.	:202.	1202.
6.000		6.5013	11	子0.5	4.90	51.	663.5000	6.7730	.62	1202.	1202.	1202.
7.000		6.7126	16	241.83	98	87. I	594.9000	5.4070	. 38	1202.	1202.	1202.
8.000		6.7437	19	24 53	4.60	ي 1. ا	531.9000	4.7990	₹.	1200.	1200.	1250.
9.000		6.5512	17	227.46	3.89	17	473.3000	6.1520	-1.28	1199.	1	.001
10.000		5.9625	₹0. -	221.57	KC M	<del>1</del> 0.	417.5000	9.6240	-1.24	1197.	1197.	1197.
11.000		5.0345	<u>*</u>	7.713	£	69.	364.0000	12.7500	67	1197.	1197.	1197.
12.000		3.9331	.30	216.64	5.77	<u>*</u>	313.0000	13.3600	10.	-10 -10	5 =	- 104
13.000		2.9554	.39	217.30	5.28	53	266.7000	10.1000	5.	1188	1.88	1169.
14.000		2.2696 3.2696	74.	217.29	м 98	26	228.0000	6.6280	.33	1185.		1185
15.000		1.8002	. 50	216.39	3.48	.03	195.7000	5.1590	ψ̈́	1182.	1182.	1182.
16.000		1.4167	<b>б</b> э.	215.64	3.47	02	167.8000	4.2110	. 39	1179.	1179.	1173.
17.000		1.1293	£4.	215.13	3.15	21	143.6000	3.2230	<b>.</b>	1170.	1170.	1170.
18.000		9176	82.	214.83	2.81	-,31	122.8000	2.3730	¥.	1159.	1159.	1159.
19.000		77147	.17	214.87	٠. 49	03	104.9000	1.7200	35.	1152.	1152.	1152.
20.000		.6737	. 12	215.2	2.43	٠ <u>چ</u> .	89.3900	1.3180	.37	1139.	1139	1139.
21.000		. 5930	60′	215.82	D.47	5	76.1700	1.0410	.39	1107.	1107.	1107.
22.000		.5374	60.	216.57	9 10	01.	64.8800	.8540	25.	: 586.	1086.	1086.
23.000		4899	90.	217.40	9. ₹8	=	55.3000	5707.	ς.	1059.	1059.	1059.
¥.003		55+4.	90.	218.32	2.50	71.	47.1330	.605¥	=	1034.	1034	1034
25,000		15+0+·	. 1.	219.27	P. 48	<b>8</b> 0.	40.2000	. 5265	± .	60 60	466	934
£6.000		.3701	<u>.</u>	220.46	0 .49	€0.	34.2800	5194.	29	951.	. 156	<u>8</u>
27.000		. 3359	.17	221.65	2.60	<u>5</u>	29.2500	.4232	- 38	. 88	. 188	29
28,000		. 3001	.63	223.10	¥.	9	₹.9600	.3871	28	807.	807.	. 209
29,000		. 2696	۶ <u>۶</u>	P24. 7	2.90	.08	21.3000	.3550	18	701.	701	761.
30,000		5/ 53.	.Đ.	E.30.023	7.	£û	16.1900	.307;	5)	E	ğ,	200

	NOBS D		1207.		₹	<u>.</u> آ	į.	<u>.</u>	<u>.</u>	<u>.</u>	ž		1239.	1233.	1236.	1261	1232.	1235.	1223.	1231.	1217	1203,	1305.	1196.	1147.	1134.	1115.	1049.	1034.	1040.	7 J	853.	. 757	. 153
	NOBS 1		1207.	1207.	1241.	1241.	. I & I	1241.	<u>.</u>		- - -	1240.	1239.	1239.	1236.	114	1232.	1225.	1223.	1221.	1217.	1253.	1202.	 	1147.	ቋ	11.15.	1099.	400 100	1040.	931	863.	. 797	651.
	MOBS P		1207.	1207.	1241.	1241.	₹-	₹	元	<u>.</u> ₹	<u>.</u>	1240	1239.	1239.	1236.	124	1232.	1225.	1223.	1221.	1217.	1209.	1202.	1196.	1147.	3¥.	115.	1099.	1094	1040	931.	863.	. 167	65
	SKEH D			07	07	. 26	.39	. 55	٥٢.	3,	01,	3.	-1.47	-2.00	-1.46	ď,	6	.37	60.	.07	8	<u>ئ</u> .	ē.	<u>\$</u>	=	90.	06	13	19		20	- 18	. 03	61.
	S.D. 0	0/M3	52.2800	33.7400	29.7100	20.0600	15.5700	10.7250	7.1460	5.6830	5.0360	4.4100	4.9020	7.2750	10.3000	12.1309	10.8900	7.730	5.5690	4.3820	3.3460	2.5+90	1.8650	1.4300	1.1080	.984	.7165	.6076	1910.	40S4.	3976	. 3622	. 3257	21.62
<b>5</b>	HEAN D	G/M3	182.0000	0000.840	0200.840	977.7000	890.8000	808.7000	731.3000	658.9000	591.9000	530.9000	474.5000	421.5000	371.0000	COOC CEE	275.4000	234.7000	200.8000	172.1000	147.2000	125.7000	107.1000	91.1403	77.5000	65.9600	56.1900	47.8500	40.8500	34.8300	29.7100	25.3800	21.7000	18,5800
MAY	SKEW 1																	3.													Ŋ,	_	GH.	.13
AMETERS.	5.0.	DEG K	11.23	8.50	7.87	6.95	9 9 9	5.00	4.50	4.45	4.61		£.08	<b>思</b> .	3.61	8	5.38	4.47	3.70	3.45	ر. 86.	2.55	2.13	≥.01	.98	<u>.</u>	<u>.</u>	€.03	2.10	2.13	ď.	بر بر	ų.	e. 35
HERMODYNAMIC STATISTICAL PARAMETERS DUGHAY (SALT LAKE CITY)	FEAN T	DEG X	236.98	289.99	288.14	294.03	275.14	255.49	261.18	254.08	26.79	239.31	231.72	524.68	-0.612	85 10 10 10 10 10 10 10 10 10 10 10 10 10	215.70	216.17	215.82	215.09	214.60	814.55	215.08	215.86	216.99	218.13	219.38	220.77	222.19	223.66	225.26	226.95	228.71	230.55
AMIC STATE	SKEH P		<u>*</u>	00.	07	30	74	53	ž,	57	60	39.	60	94.	28	101	03	*O`-	60	07	07	06	60	=;	10	- 10	- 08	₹0. I	06	07	<b>5</b> 0, 1	02	.03	.07
THERMODYN	5.0. P	₽	7.8829	5.2040	4.8701	4.6939	4.3528	5.4926	5.9342	6.1765	6.2802	6.3300	6.2339	5.8173	5.1610	1.0351	3.2780	2.5255	1.9947	1.6077	1.2949	1.0631	.6835	5057.	£ 7.	.5743	.5113	.4589	.4163	.3741	. 3352	. 3053	.2753	£3.69
11. 5	HEAN P	9	1010.4000	899.2800	969.1000	798.6000	707.1100	623.9200	學6.7100	480.7500	419.4500	100 Z . 100	315.6400	271.8300	233.2300	193.47.00	170.3800	145.5500	124.3600	106.2100	90.6760	77.4050	66.0990	55.4680	48.2690	41.3010	35.3840	30.3250	<b>56</b> 30	22.3610	19.2110	16.5360	14.2480	12.2970
TABLE	:																																	30.000

	O SBON		147.	1147.	1195.	1195.	- <del>7</del> 6-	- - -	5 -	₹: -	1192.	1191.	1191.	1191.	1189.	1187.	1186.	1180	1180.	1179.	1176.	.1711	1163.	1156.	1.25	1097.	1077.	1053.	1061.	1018.	₩.	850.	738.	5.0
	NOBS 1		1147.	:147.	6	<u>=</u> 8	Б	<u>.</u>	-	₹ =	28 28	1191	1191	.191	189	.187.	98		1180.	1179.	1176.	11711.	1163.	1156.	KĊ I	1097	1077.	1053.	1061	1018.	943.	. 028	738.	ردر و . درو
	NOBS P		1147.	1147.	1195.	1195.	5 =	-6 -6 -7	6 -	1.04 1.04	1192.	161	.191	.1611	1189.	1187.	1186.	1.86.	1180.	1179.	1176.	.1711	1163.	1156.	1125.	1007.	1077.	1053.	1061.	1016.	ų. M	<b>P</b> 50.	738.	B.20
	SKEM D		.0S	05	05	75.	φ¥.	55.	<b>.</b>	.23	60.	0 (1	79	-1.96	-1.79	-1.02	29	01.	85	¥.	δ.	81.	8	91.	90.	05	Ξ.	60.	.07	60.	<b>™</b>	.00	ę.	cu.
	8.0.0	G/M3	54.0900	34.1400	29.9200	18.2600	14.1000	9.4760	5.9760	4.7240	4.2900	, <u>0.45</u>	3.6510	+ 5030	6.8880	9.3200	9.7200	9.2110	6.7550	5.4100	3.9640	€.5800	1.7560	1.2540	. 9868	.7713	£659.	.5386	9194.	6404.	. 3637	. 3235	. 2985	34345.
JUNE	MEAN D	G/M3	1159.0000	1058.0000	1030.0000	960.7000	877.1000	798, 3000	724.0000	E53.7000	588.1000	528.5000	473.9000	423.1000	374.9000	328.0000	283.1000	243.0000	208.8000	179.0000	152.7000	129.7000	109.9000	93.2400	79.2000	67.3300	57.3300	46.8400	41.6800	35.5800	30.4100	26.0100	22.2700	19.0330
7	SKEH 1		<u>*</u>	55.	.e3	ر ا	30	34	£4	L. L.	94.1	<u> </u>	- 36	٠. و ا	. 26	Ø₹.	01	19	05	32	39	08		51.	. 13	0	đ.	03	9.1	00.	0	06	01	٠. د
. PARAMETERS.	5.D. T	DEG K	12.17	9. B	9.38	5.73	5.38	4.65	4.00	3.80	3.93	M.	3. 88. 88.	3.56	3.27	3.87	. t	£ . 18	¥.02	3.87	3.41	ر. 135	2.01	₹ 	1.57	<u>-</u>	<b>9</b> 8	. ±8	3	1.59	1.76	1.8	<u>.</u>	გ. იგ
STICAL PAR E CITY)		DEG K	302.09	295.19	293.40	289.55	281.60	273.81	266.23	259.19	252.16	٦. خ	237.00	229.40	255.85	218.30	216.41	215.36	213.95	212.83	212.5	213.27	214.83	216.34	217.83	219.35	220.91	222.50	224.10	225.75	227.43	<b>55</b> 3.03	230.85	232.66
HERMODYNAMIC STATISTICAL DUGHAY (SALT LAKE CITY	SKEM P		51.	05	¥	3 3.1	64.1	97.	95'-	E+	LJ	ا د	₽. ·	35	K	60	.09	61.	57.	91.	₹.	51.	<u>*</u>	01.	Ξ	<u>*</u>	. 17	.17	.15	51.	60.	01.	. n8	.09
THERMOOYN	S.D. P	₽	7.2747	4.3676	4.0774	3.9398	4.3328	4.8586	5.2352	5.4740	5.5641	5.5374	5.4784	5.3076	4.9328	4.2673	3.5+39	2.8013	2.1499	1.6385	1.2333	1696	. 7990	6479.	. <del>5</del> 914	.5186	.4586	5514.	.3667	. 3261	. 2932	2588	. 2345	¥115.
11. 6	HEAN P	9	1008.5000	699 3800	869.6800	800.4100	710.4100	628.4400	554.0500	436.7300	425.8900	Dunn 1/2	322.4800	278.6300	239.7800	205.4800	175.7600	150.1500	128.1500	109.2900	93.1480	79.4050	67.7760	57.8990	49.5210	42.3980	36.3560	31.1950	<b>24</b> 8090	23.0590	19.8520	17.1070	14.7580	12.7510
TABLE STAY ION	7	₹	000	1.000	1.288	S.000	3.000	4.000	5.000	6.000	7.000	9.00	9.000	10.000	11.000	12.000	13.000	14.000	15.000	16.000	17.000	18.000	19.000	20.000	21.000	22.000	23.000	000 %	32.000	26.000	27.000	28.000	29.000	30.000

		SBON O		1162.	1162.	1243.	1243.	. 24.3.		1243.	1243.	1242	<u>.</u>	<u>.</u>	.040	1237.	1235.	1233.	1228.	1226.	1555.	1219.	1218.	1209.	1198.	.196.	1129.		1091	1112.	1050.	969	628 628	760.	645.
		NO85 →		-185	- - - -	1243.	1243.	1243.	243.	243.	1243.	1545.	124).	ž	1240.	1237.	.255	1233.	1228.	1226.	1888.	1219.	1218.	1209.	26 2	1186.	£ =	: = :	1601		1050.	966	.658	760.	645.
		NOBS P		1162.	1162	1243.	1243.	124 ¥	1243.	1243.	-243.	- <del>2</del> -6	12'41.	1241.	1240.	1237.	1235	1233.	1228.	1226.	1222.	1219.	1218.	1209.	1198.	1186.	1129.		1091	1112.	1050.	996.	859.	760.	645.
		SKEE O		ų.	91.	. 15	5.	.57	35	0≥.	02	₽.	<b>7</b> 0.	.07	٠. 0	66	06	68	66	64	- 18	06	- 10	٠ دي.	06	60	- 11	- 08	60	- 03	=;	13	07	.0s	13
		5.0.0	0/M3	53.6200	31.9500	<b>≥6.9900</b>	11.0600	7.5850	5.1900	3.8810	4.1690	3.9390	3.6080	3.2530	3.0150	3.1080	3.0500	5.1770	5.5270	5.0640	3,9410	2.6200	1.8560	1.3810	1.0320	.8350	.6712	.5564	T874.	.4122	.3599	. 3246	.264 <b>6</b>	. 2332	21.15
k,		# & D	G/M3	1135.0000	1039.0000	1012.0030	944,6000	R64 . 2000	789, 6000	719.3000	651.3000	586.2000	527.1000	473.0000	423.1000	376.9000	GGGC czz	291.8000	254 . 1000	219.5000	187.5000	158.3000	133.2000	112.2000	94.8800	90.4100	68.3500	58.:900	49.6100	42 3500	<b>36</b> .1900	30.9200	26.4700	22.6900	19.4700
ר		SKEM 1		10		-,05	98. 1	68	- 55	7.1	٠,31	35	, 26	30	¥0.	15.	F)	51.	S,	.58	25	=	. 12	60.	09	12	07	17	10		03	8.	08	90	= -
AMETERS.		5.0. 1	DEG K	12.45	8.73	£.7	44.8	2.80	رن بع	€.07	<b>7</b> 5.€7	ال 148	2.65	2.85	2.87	2.71	0 14	74.5	2.90	 33	3.11	S S	2.13	- 8	1.59	3,45	1.31	¥.	声:-	- 36	14.	1.61	 .0.	 	86
STICAL PARAMETERS	_	_	053 K	307.79	300.90	238.98	25. <b>3</b>	287.26	278.94	270.69	263.37	17.952	249.67	242.30	234.86	227.77	55.1.35 57.1.35	216.45	212.20	209.00	207,93	203.16	211.5	214.15	216.23	518.3	219.91	₫.   : : : : : : : : : : : : : : : : : : :	223.11	85. v.25	225.23	227. <b>92</b>	229.46	231.01	232. <b>68</b>
WIC STATIS	SALT LAK	SKET P		.03	€ <b>7</b> . 1	.5.	59	62	58	61	- , 59	۰.61	61	- 59	58	1.54	ß	07.1	29	20	=:	16	15	16	06	05	, 0t	03	65.1	03	30.	03	03	.03	. O2
THE REPORTIN	COGMAY	S.D. P	₽	6.4674	3.2036	2.7912	2.5213	2.4934	2.0.52	2.6795	2.7586	≥.801≥	2.8241	2.8678	2.8386	2.8452	0.0187	2.3316	1.9142	1.4825	1.1669	.9135	. T721	.6588	.5693	5000	.4383	. 3358	.3451	. 3071	81.73	40	5083	. 1885	.1730
11. 7	• 725720	HE AN P	₽	1007.4000	930.3300	871.1800	803.1100	714.5100	633.5700	559.3900	492.9300	+32.290n	377.9700	329.1200	285.3600	246.4100	211.6030	181 . 3000	154.7230	131.6500	111.8700	95.0460	80.8660	68.9560	58.8930	50.3750	43.1480	37.0050	31.7700	27.3150	23.4980	20.2300	17.4350	15.0430	13.0030
TABLE	STATION	~	ĭ	000	000.1	. 288	2.000	3.000	£.000	5.000	6.000	7.000	8.000	9.000	10.000	11.000	12.500	13.000	14.000	15.000	16.000	17.000	18.000	19.000	20.000	21.000	22.00n	23.000	24.000	25.000	26.000	27.000	28.000	29.000	30.000

11.8	THERMODYNA DUGHAY	PRHODYNAMIC STATIS DUGHAY (SALT LAKE	►-	AMETERS.	₹	NUGUST					
	5.0. P	SKEM P	PEAN 1	S.D. 1	SKEH 1	MEAN O	S.D. D	SKEM D	NOBS P	NOBS 1	N085 0
	₽		o S X	DEG K		G/M3	G/M3				İ
_	5.6234	60.	306.14	, y		1143.0000	53.6800	S.	1192.	86	1192.
	3.3635	25	30°.	8.73		1044.0000	32.5400	.17	1.92.	% ≃	
	2.9723	31	297.39	7.83		1017.0009	27.7000	61.	1238.	1238.	1238.
_	2.710t	E+'-	293.83	4.21		949,1000	13.6700	68.	1238.	1238.	1238.
-	2.8289	61	285.87	3.71	•	869.0000	9.9960	1.1	1238.	1238.	1238.
	3.1584	69	17.775	3.14	·	792.2000	6.6650	96.	1238.	1238.	1238.
	3.3777	1.17	269.85	<del>ر</del> و		720.4000	4.3580	35	1238.	1233.	1238.
	3.5010	81	262.83	2.57		651.4003	4.0660	ē	1239.	1238.	1239.
	3.5100	85	35.38	2.7		586.0000	3.8700	*O.'	1238.	1230.	1238.
	3.5609	, 5,	90.9	ć c		526.9000	A 5970	je V	1237.	1237.	1237.
	3.5552	73	찬. 1조	3.10		472.8000	3.3360	30.	1235.	1235.	1235.
	3.5407	65	234.23	3.17		422.9000	3.1970	62	1234.	12%.	1234.
	3.4535	52	227.19	3.06		376.5000	3.7650	64.1-	1230.	1230.	1230.
	3.1400	54	221.15	2.75	ا. ئن	332.2000	4.7660	-1.51	1228.	1,228.	1228.
	2.7782	29	216.50	ν. Α		290.6000	5.7200	₹.	1228.	1228.	1220.
	2.2838	- 18	212.57	2.81		252.7000	6.1180	¥.	1227.	1227.	1237.
	1.7729	12	203.65	3.43		218.1000	5.7500	37	1224.	1224.	1224.
	1.3515	÷0.	208.55	3.55		185.4000	4.7100	17	1217.	1217.	1217.
	1.0372	02	209.51	2.90		157.7000	3.2370	22	1209.	1209.	1208.
	****B.	.03	211.60	<u>ب</u> ښ		132.8000	2.1970	<del>3</del>	1198.	1198.	1190
	. 7037		214.15	<b>5</b> .00		111.9000	1.5590	23	1188.	88 2	1180.
	.6067	60.	216.18	1.72		0069 <b>46</b>	1.1210	60.	1179.	1179.	1179.
	.5343	60.	218.05	S		80.2900	.8393	٠.0	1163.	1163.	1163.
	.4767	=	219.59	<del>]</del>		68.2900	.6679	.0.	1117.	1117.	1117.
	.4256	01.	221.06	1.47		58.1500	.5632	.03	1103.	1:03.	1103.
	. 3838	Ξ.	222.50	1.17		69.5910	1864.	<b>*</b> 0.	1085.	1085.	1095.
	0440	.07	223.98	1.49		42.3300	¥654.	01.	1087.	1087.	1097.
	. 3075	90.	225.44	₫. 		36.1600	. 3625	.07	1041.	1041	1040.
	.2745	.05	256.95	1.70		30.9100	.3261	20.	.986	. 986	986.
	£.4.	<b>.</b>	228.28	1.78	18	26.4600	.2813	.03	876.	.976	876.
	まるで	90	859.6 <del>8</del>	94 		22.6700	. 2540	.07	787.	787.	707.
	. 1958	Ξ.	231.11	1.93		19.4500	. 2237	3.	6,'u.	ڊ ه	

	NOBS 1 NOBS D			_		_	_	_	_	_	_	_							_				_		_	-								1066. 1065. 1022. 1022. 941. 941. 867. 771.
	d SBON		141.	==	1200.	1200.	1200.	1200.	1200.	1200.	1200.	1200.	1200.	1199.	1195.	2011	1190.	1188.		1179.	1172.	1167.	1159.	1148.	1112.	1094.	1070.	1057.		1066.	1066. 1022.	1026. 1022. 9*1.	1022. 941.	1066. 1022. 941. 1771.
	O HEAD		χį	9.	.17	59	<b>6</b> .	. 1.13	<b>₹</b>	9	.23	30	86. -	-1.68	-1. <b>6</b> 4	<b>C</b> !	¥. '	34	30	23	٠. ي <del>ك</del> ر	ĸ,	18	13		09	- 06	05		06				
	0.0.8	0/H3	57.5000	36.0500	31.3200	18.6800	14.2300	9.2430	6.2110	5.3520	4.5630	4.1380	4.2430	5.1600	6.7700	7.0300	7.5770	6.9420	6.1000	5.0520	3.7690	2.6940	1.9170	1.4790	1.1420	.9166	.7503	.6328		1.75	. 5414 . 4685	. 4685 . 4128	7414 4685 4128 3540	. 3540 . 4 128 . 4 128 . 3540 . 3075
יוביים אין	CNAPA	G/M3	170.0000	066.0000	038.0000	965.7000	880.5000	BOC. 5000	724.6000	653.2000	587.5000	528.0000	473.3000	422.5000	374.3000	327. 7000	284.5000	246.2000	212.1000	181.6000	154.4000	130.7000	110.5000	93.5400	79.3400	67.4200	57.3300	48.8000	0000	41.6300	35.5300	35.5300 30.3700	35.5300 30.3700 25.9900	35.5300 30.3700 25.9900 22.2600
3	לאברי יו																																	20. 50. 50.
ATE LEND.	۲ د	DEG.	12.35	9.07	8. 23.	₽ P	5.10	4.33	ъ. В	3.85	3.7 7.8	3.65	3.36	3.09	3.16	() ()	3.33	3.33	3.58	т В	3.26	69.€	đ,	ο <u>1</u> . Ο	ê.39	ج. ج 29.	2.30	2.07	Č	<u>5</u> .	5 8 	 8 8	 • 8. 9. 9 • 8. 8. 8	
O TO PAR			300.29	293.85	₫. Ž	288.69	281.06	273.52	266.50	259.87	255.98	245.62	238.00	230.61	224.36		216.62	213.77	211.41	210.15	210.40	211.49	213.23	214.92	216.48	517.92	513.49	221.03	77 000		223.84	223.84 225.21	223.84 225.21 225.21	223.84 225.21 226.38 227.61
MIC STATE	Y (SAL! LAKE	<b>K</b>	. 17	- 19	₩. '	85.	۲	17	85	90	95	99	97	86	69	13	33	22	17	08	07	0.	ō.	0.	.03	.05	90.	96	,		è 8.	) BO	<u> </u>	80 9
THERMOOVINA	A CONTRACT	i ge	8.0599	4.6527	4.1815	3.7819	3.9976	4.1.574	4.8091	5.0565	5.1220	5.1178	6066.4	7801	4.3380	10.0	3.27	2.6544	2.0847	5425	1.2823	1.0297	. B595	.7368	6849	. 5803	.5186	4700	4.02B	100	37.69	3769	3769	25.05. 10.05. 10.05. 88.75.
9.11	725720	£ £	011.5000	901.6100	871.7700	802.1300	0017.117	629, 4500	954.9700	487.6500	426.8600	372.4300	23.5200	279.7400	0000		176.8700	151.0300	128.6800	109.5300	93,1910	79.3270	67, 5150	57,7620	69.5	42.1710	36, 1230	30.9620	200	00.00	22.8320	22.8320 19.6320	22.8320 19.6320 16.8910	22.8320 22.8320 19.6320 16.8910 14.5450
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	0 S80N		1188	- 168 -	<u>.</u>	<u>.</u>	ř	Ž	ž	ž	<u>.</u>	<u>.</u>	<u>.</u> रु	1239.	1237.	1235.	1232.	1225.	1221.	1217.	1208.	1201	1190.	1162.	136	1110.	160	1083	1011	9,0	970	.006	793.	: : 1
	► SBON		168	1989 1		13.	1241.	- 1 <del>2</del> -1	17-11		元	-1 <del>2</del> -1	- <del>-</del> <u>-</u> -	1239.	1237.	1235.	1232.	1229.	1221.	1217.	1208.	1201.	1190.	E	286.	1110.	60	1089	.077	1049.	970.	. 006	793.	!! !!
	NOBS P		1.08	1168.		-₹.		- <del>1</del> 2 - 1	<u>.</u> 14€1.	٠ ٢	<u>~</u>		1241.	1239.	1237.	1235.	1232.	1229.	1221.	1217.	120A.	1201.	1190.	1192.	1136.		1094	1089.	. 6401	1046.	.076	.006	793.	900
	SKEM D		85.	.05	9	. 33	.60	õ.	.93	.80	٠	3	-1.26	-1.8 <sub>4</sub>	-1.42	89	t. B	33	32	21	12	. 02	10.	03	12	00.	8.	6	03	- 16	 25.	- 29	22	١. ١٥
	5.0.0	6/H3	57.5700	35.9100	31.2500	20.4500	15.2800	10.2400	7.6110	6.1060	5.1080	4.6090	5.2010	7.4480	9.9420	11.0700	10.1700	6.6330	7.1920	5.9330	4.4390	3.1500	2.1660	1.5630	1.1520	. 8853	7517.	.5982	.5206	4544.	. 3938	.3499	.3113	.e. 6.
CTOBER	HEAN D	G/M3	209.000	095.0000	064.0000	986.6000	895.1000	808.9000	729.0000	656.2000	589.7000	529,4000	473.7000	421.8000	372.4000	325.2000	281.2000	242.0000	208,0000	177.9000	151,1000	128.1000	108.5000	0016.16	77.9200	66.1900	56.2700	47.8730	40.8000	34.7800	29.6800	25.3700	21.6900	19.5700
8	SKEH 1		8.	.17	92.	€4. I	63	±0	95	-1.03	-1.06	ą.	ι. 1.	03	<b>*</b>	<del>]</del>	51.	<b>3</b> 1.	당	Ĵ.	65.	01.	91.	ų.	ij	ψ	<b>9</b>	.13	.18	.13	₽.	08	05	<b>₹</b> 0
AMETERS,	5.0. 1	DEG K	38.5	96.56	7.87	6.04	5.73	5.18	5.05	5.00	89.	3	£.08	3.47	3.47	4.22	£.33	Ξ.	4.06	4.21	3.85	กั เก	<i>9</i> .61	2.33	2.23	ř.	ري وي.	6.45	54.5	2.56	2.71	ج 98	3.10	3.15
IC STATISTICAL PARAMETERS	FEAN T	DEG K	282.50	296.98	282 282	285.7	275.94	269.57	263.32	256.69	249.60	الارا ال	234.59	227.43	251.45	217.22	214.68	212.72	210.79	209.65	209.86	210.66	211.80	213.04	214.4	215.49	216.70	2:7.95	219.05	220.19	221.33	222.27	223.23	224.30
T, -							57																											
THERMODYNA	S.D. P	9	8.8636	5.7652	5.4051	5.1320	5.4289	6.0345	9920.9	6.8420	6.9939	6.9559	6.7597	6.3348	5.6805	4.7860	3.9261	3.1328	2.4143	1.8522	1.4167	1.1076	.903	. 7560	.6521	. 5803	.5213	9174.	.4311	. 3966	. 3650	. 3356	. 3040	£789
11. 10	FAN P	9	016.9000	903.7200	873.3200	802.0700	0076.607	626.580u	551.4500	483.7600	422.7200	0051 av	319.1500	275.3600	236.6900	202.6800	173.1700	147.7000	125.7900	107.0200	91.0060	77.4250	65.9420	56.2000	47.9+00	40.9400	35.0030	29.9420	25.6490	21.9860	18.8600	16.1880	13.9040	11.9550
CTATION	2		-																															

	1	0 S80		1155.	:155.	1202.	1202.	1202.	1202.	1202.	1202.	1200.	1200.	1199.	1198.	1198.	3	1189.	1179.	1175.	1168.	1157.			.110.	1055.	1031.	. 786	1003.	970.	934.	₽. ₩	. 627	. e09	4 to .
	1	NOBS 4		: :2:	<u> </u>	1202.	1202.	1202.	1202.	1202.	1202.	1200.	1200.	1.99	188	1198.	8	1189.	179.	<u>.</u>	1169.	1157.	1148	# =	1110.	1055.	1031.	. 266	1003.	.076	934.	843.	759.	608	47.7
		2 SBON		1155.	155.	1202.	1202.	1292.	1202.	1,202.	1202.	1200.	1200.	1199.	1198.	1198.	8	1189.	1179.	1175.	1168.	1157.	1148.	1134	1110.	1055.	1031.	. 266	1003.	970.	934.	843.	759.	<b>608</b> .	£40.
		SKEH		۳ħ.	55.	. 17	8	<b>9</b>	77	.83	<b>8</b> 5.	. 17	€. t. 5	-1.24	-1.35	90	. 35	≥1.	. 17	. 13	. 18	=	01	13	07	= :		٠. گئ	35	57	ı. L	50	32	00.	.13
		S.O. 0	0/H3	49.5100	31.0400	27.2400	20.9600	15.9100	11.6000	8.83£	7.0810	6.0530	5.3420	6.2450	8.6850	11.3900	16.4330	11.1800	8.7340	7.1810	5.7540	4.2310	3.0170	2.1660	1.5660	1.1850	.9515	.7673	9629	.5505	.4822	9484.	.3816	.3187	0675.
NOVEMBER		EAN O	G/M3	1243.0000	1124.0000	1091 .0000	1010.0000	911.9000	819.8000	736 3000	660.9000	592.4000	530.0000	472.4000	418.4000	367.1000	316. +000	273.7000	234.8000	201.5000	172.3000	146.7000	124.7009	105.0000	90.0600	76.5000	64.9900	55.2200	16.9500	39.9800	34.0700	29.0500	24.8000	21.2000	18.1400
7		SKEE -		17	<u>0</u> .	. IS	03	- 28	53	63	69	57	٠. ٦,	- 08	.16	.60	iŞ	23	22	02	15	13	= -	<b>5</b> .	31	٠. اي	94	33	36	20	22	- 18	- 07	05	. 13
AMETERS,		5.0.	S S S S S S S S S S S S S S S S S S S	8. 98.	6.60	60.9	ф. Ю	5.56	F	5.43	57.50	54.40	5.13	. <del>1</del>	¥.7	₹ 5	4.95	5.03	¥. ¥	ř,	4.21	3.72	3.12	2.67	₽. ¥	€.	ار 38	.¥.	2°.60	2.70	2.75	ب. 187	3.02	3.09	<u>ም</u>
STICAL PAR	( C   1 )	MEAN 1	966 X	285.23	279.97	278.36	275.63	269.61	2C+ 00	₹ 800 800	<b>18</b>	10. T.	237.49	230.37	223.89	218.89	30.0	214.48	213.20	211.71	210.76	210.69	210.36	211.35	21.85	215.52	213.36	¥. 7.0	215.36	216.2	217.08	218.05	218.74	219.65	85.022
MIC STATIS	SALT LAKE	SKEN		118	17	26	84.1	50	\$ <del>1</del> . I	£3	74	47	94.1	54.	31	- 18	05	.03	.05	.0	-,01	₹0. •	08	=:-	<u>+</u>	10	- 08	12	- 18	17	19	<u></u>	٦. ١٥	02	03
THE REPUCCIONAL	DOGHAY	S.D. P	₽	9.3441	6.5990	6.2220	5.6787	5.7036	6.2164	5.7732	7.1382	1.37	7.2975	7.1163	6.5964	5.8288	4.0/48	3.9076	3.0514	2.3633	1.8054	1.3947	1.0998	1106	. 7590	. 6553	.5725	5143	.4611	.4235	.385+	.3+83	.3166	2745	.2480
11. 11	8/S/	EAN P	9	1.321.20to	904.8700	<b>673</b> .6900	800.5600	706.4900	621.7600	545.7100	477.4200	416.0800	351.3800	312.4500	268.8800	230.6000	187.2100	168.3800	143.6100	122.3800	104.1900	88.6690	75.4810	64.2860	54.7580	46.6660	39.9000	33.9750	<b>29</b> .0250	24.8150	21.2310	18.1810	15.5740	13.3650	11,4850
TABLE	Z																																		

| NO85 D |  | 1161  | 1238.  | 1238.  | 1238.  
   
   
  | 1237.  
  | 1237.  | 1237.   | 1235.  | 1233.   | 1255.  | 1232.   | 1228.   | 1227.   
   | 1223.   | 1217.  | 1207.   | 1203.  | 1192.   | 1178.   | 1163.   | 1143.   
   | 1087.   | 1066.  | 1036.   | 1025.  
  | 970.  | .668   
  | . 177.  | 651.   | 505.   | ć:   |
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NOBS 1	911	1911
   
   
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  | 1237.  | 1237.   | 1235.  | 1233.   | 1233.  | 1232  | 1228.   | 1227.   
   | 1223.   | 1217.  | 1207.   | 1203.  | 26<br>18  | 11.78.  | 1163.   | 1143.   
   | 1087.   | 1066.  | 1036.   | 10.79  
  | .076  | ₽ġIJ.  
  | 777.  | . 199  | 505.   | ć  |
| NOBS P | -  | 191   | 1238.  | 1238.  | 1238.  
   
   
  | 1237.  
  | 1237.  | 1237.   | 1235.  | 1233.   | 1233.  | 1232.   | 1228.   | 1227.   
   | 1223.   | 1217.  | 1207.   | 1203.  | 1192.   | 1178.   | 1163.   | 1143.   
   | 1087.   | 1066.  | 1035.   | 1025.  
  | .076  | .668   
  | . 177   | 651.   | 505.   | . n  |
| SKEW D | ,  | , in  | ٤.   | . 18   | .37  
   
   
  | <b>.</b>   
  | .73  | .51   | 61.  | ٠. 50   | -1.32  | -1.16   | 68  | -:-   
   | 14.   | .03  | 60.   | 55.  | .31   | . 33  | <del>,</del>  | <b>Q</b>  
   | ۲¥.   | .23  | ĸ   | ₹0   
  | . 25  | 33   
  | 39  | . 4.5<br>. 4.5   | ±0   | ///-   |
| S.D. D | 57.43  | 31.7100   | 27.4600  | 22.1600  | 17.4700  
   
   
  | 12.8000  
  | 9.9930   | 7.5930  | 6.0110   | 5.6720  | 8.0170   | 11.5300   | 14.3600   | 14.8100   
   | 11.9200   | 8.5370   | 6.9270  | 5.7360   | 4.5140  | 3.3280  | 2.4410  | 1.7500  
   | 1.3273  | 1.0350   | .8254   | ¥169.  
  | .6301   | . 5683   
  | .5203   | 14921  | 4719   | 7. 5.  |
| MEAN D | G/M3   | 151.0000  | 116.0000   | 025.0000   | 921.4000   
   
   
  | 825.7000   
  | 740.5000   | 664 . 1000  | 594.5000   | 530.9000  | 471.9000   | 416.3000  | 363.4000  | 313.4000  
   | 268.0000  | 229.4000   | 196.9000  | 168.8000   | 144.1000  | 122.8000  | 104.5000  | <b>89</b> . 8900  
   | 75 6000   | 64.3100  | 54.7500   | 46.6300  
  | 29.74n0   | 33.9000  
  | 28.9200   | 24.6700  | 21.0800  | 13. U. 00  |
| SKEH 1 |  |   |  |  |  
   
   
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  |   |  |  |  |
| 5.0. 1 | מ<br>א<br>א ני   | 6.21  | 5.65   | 5.75   | 6.09   
   
   
  | 6.07   
  | 6.19   | 6.25  | <b>6</b> .05   | 5. W  | 4.21   | 3.50  |   | 90.9  
   | 5.7   | 3.   | 5<br>. 10   | 4.23   | £.08  | 3.62  | 3.31  | 3.06  
   | 3.15  | 3.27   | 3.30  | ж.<br>Ж.   
  | 3.59  | ж<br>Ж.  
  | 3.93  | ¥. 14  | æ.   | 3  |
| _      | 27.7<br>8  | 273.82  | 272.53   | 73.175   | 266.13   
   
   
  | 260.97   
  | 255.06   | 248.45  | 7.15   | ביח חצל   | 227.56   | 221.69  | 217.64  | 215.84  
   | 215.45  | 214.81   | P13.9   | 212.42   | 211.83  | 211.72  | 211.93  | 212.37  
   | 212.84  | 213.40   | 2:3.8,  | 214.51   
  | 215.00  | 215.52   
  | 216.08  | 216.76   | 217.53   | ₹.812<br>18.0±   |
| SKEW P | į  | 82  | 31   | 37   | 04.1   
   
   
  | 37   
  | <del>,</del>   | 1.45  | 64   | 6±.   | 54. I  | 30  | 15  | 02  
   | .07   | <u>8</u> -   | 25  | κ̈́  | ĸ   | . 17  | <u>0</u>  | 60  
   | 18  | . 28<br>   | 32  | 39   
  | 54  | 35   
  | 32  | 15   | <u>.</u>   | .07  |
| S.D. P | <b>2</b> 01  | 7.922   | 7.1964   | 6.5847   | 6.6178   
   
   
  | 7.2053   
  | 7.8488   | 8.2953  | 8.4913   | B. 5005   | 8.1493   | 7.3492  | 6.2623  | 5.0639  
   | 3.9504  | 3.0984   | 5.4462  | 1.8916   | 1.4658  | 1.1487  | . 9347  | 7814  
   | .6870   | 6204   | .5727   | 5243   
  | 768y.   | C+++.  
  | 4142  | .3770  | .3457  | 3119   |
| HEAN P | 19 Kg  | 905.7700  | B7+.1000   | 799.6100   | 704.4000   
   
   
  | 618.9300   
  | 542.360C   | 473.7200  | 412.1500   | 75 CF5  | 308.2800   | 264.8600  | 226.8700  | 193.9200  
   | 165.6000  | 141.3500   | 120.6200  | 102.8300   | 87.5960   | 74.6180   | 63.5810   | 54.1810   
   | 46.1830   | 39.3870  | 33.6130   | 28.7090  
  | 24.5250   | 20.9690  
  | 17.9370   | 15.3480  | 13.1610  | 11.3060  |
| 7      | £ 6  |   |  |  |  
   
   
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  |  |   |  |   |  |   |   |   
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  |   |  |  |  |
|        | MEAN P S.D. P SKEWP MEAN I S.D. I SKEWT MEAN D S.D. D SKEWD NOBS T N | MEAN P. S.D. P. SKEM P. MEAN T. S.D. T. SKEM T. MEAN D. S.D. D. SKEM D. NOBS P. NOBS T. NK. HB. MB. CGG K. DEG K. CGG K. GCATS. GAM3. GAM3. GAM3. AND MASS P. NOBS P. | MEAN P S.D. P SKEW P. FEAN T S.D. T SKEW T MEAN D S.D. D SKEW D NOBS P NOBS T NK 18 MB DEG K DEG K 1025-2000 10.347005 277.86 8.7259 1284.0000 55.3000 .73 1161. 1161. 1 1905-7700 15.342228 273.82 6.2140 1151.0000 31.7100 .45 1161. 1161. 1 | HEAN P S.D. P SKEW P FEAN T S.D. T SKEW T MEAN D S.D. D SKEW D NOBS P NOBS T NK 18 MB DEG K DEG K G.M3 G/M3 G/M3 1025.2000 10.397005 277.86 8.7259 1284.0000 52.3000 .73 1161. 1161. 1 905.7700 7.542228 273.82 6.2140 1151.0000 27.4600 .79 1286. 1285. 1386. | HEAN P         S.D. P         SKEW P         MEAN T         S.D. T         SKEW T         MEAN D         S.D. D         SKEW D         NOBS P         NOBS T         NOB           1025.2000         10.3970        05         277.86         8.72        59         1284.0000         52.3000         .73         1161. <th>HEAN P         S.D. P         SKEW P         MEAN I         S.D. T         SKEW I         MEAN D         S.D. D         SKEW D         MOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS T         NN           1025 2000         -05         277.86         8.72         -59         1284.0000         55.300         .73         1161.</th> <th>HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS T         NN           1025-2000         10.3700        05         277.86         8.72        59 1284.0000         52.3000         .73         1161.         1161</th> <th>HEAN P         S.D. P         SKEH P         FEAN T         S.D. T         SKEH P         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P         NOBS T         NN           1025-2000         1.3970        05         277.86         8.72        59 1284.0000         55.300         .73         1161.</th> <th>HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH P         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH P         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         HEAN I         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         NOBS P         NOBS F         NOBS P         NOBS F         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P         NOBS T         NN           168         MB         DEG K         DEG K         DEG K         CAH3         6/H3         6/</th> <th>HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS F         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         FEAN T         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         NOBS P         NOBS T         NAB           168         HB         DEG K         DEG K         CAM3         G/M3         G/M3</th> <th>HEAN P         S.D. P         SKEH P         HEAN I         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         NOBS P         NOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         MOBS P         MOBS P&lt;</th> <th>HEAN P         S.D. P         SKEH P         FEAN I         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         HOBS P         NOBS F         NOBS F&lt;</th> <th>HEAN P         S.D. P         SKEH P         FEAN T         S.D. T         SKEH T         FEAN D         S.D. D         SKEH D         HEAN D         S.D. D&lt;</th> <th>PEAN P         S.D. P         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. D         S.D. D         SKEW D         NOBS P         NOBS I         NOBS P         NOBS I         NOBS P         NOBS P&lt;</th> <th>PEAN P         S.D. P         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. D         S.D. D         SKEW P         PEAN I         S.D. D         S.D. D         SKEW P         DGG K         DG</th> <th>PEAN P         S.D. P         SKEW P         PEAN I         S.D. T         SKEW I         PEAN D         S.D. D         SKEW I         SKEW I         SKEW I         SKEW I         SKEW I         SKEW I         SKEW I&lt;</th> <th>PEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SEC TOWN         SEC TOWN         S.D. T         SEC TOWN         <th< th=""><th>PEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH P         PEAN D         S.D. D         SKEH D         NOBS T         NOBS T&lt;</th><th>HEAN P         S.D. P         SCEN P         FEAN I         S.D. T         SCEN I         PEAN I         S.D. D         SCEN I         DEG K         COFG K<!--</th--><th>HEAN D         S.D. P         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. D         SKEH P         MOBS P&lt;</th><th>HEAN P. S.D. P. SKEH P. HEAN I. S.D. T. SKEH I. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D.</th><th>HEAN P         S.D. P         SCEN P         PEAN N         S.D. T         SKCH T         MAS N         S.D. D         SCEN P         MOSS N         MOSS N<!--</th--><th>HEAN P         S.D. P         SECH P         FEAN T         S.D. D         SECH P         FEAN T         S.D. D         SECH P         PEAN T         S.D. D         SECH P         PEAN T         S.D. D         SCH D         COTA T         COTA T<!--</th--></th></th></th></th<></th> | HEAN P         S.D. P         SKEW P         MEAN I         S.D. T         SKEW I         MEAN D         S.D. D         SKEW D         MOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS T         NN           1025 2000         -05         277.86         8.72         -59         1284.0000         55.300         .73         1161. | HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS T         NN           1025-2000         10.3700        05         277.86         8.72        59 1284.0000         52.3000         .73         1161.         1161 | HEAN P         S.D. P         SKEH P         FEAN T         S.D. T         SKEH P         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P         NOBS T         NN           1025-2000         1.3970        05         277.86         8.72        59 1284.0000         55.300         .73         1161. | HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH P         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH P         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         HEAN I         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         NOBS P         NOBS F         NOBS P         NOBS F         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS P         NOBS T         NN           168         MB         DEG K         DEG K         DEG K         CAH3         6/H3         6/ | HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         NOBS P         NOBS F         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         FEAN T         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         NOBS P         NOBS T         NAB           168         HB         DEG K         DEG K         CAM3         G/M3         G/M3 | HEAN P         S.D. P         SKEH P         HEAN I         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         NOBS P         NOBS P< | HEAN P         S.D. P         SKEH P         PEAN I         S.D. T         SKEH T         MEAN D         S.D. D         SKEH D         MOBS P         MOBS P< | HEAN P         S.D. P         SKEH P         FEAN I         S.D. T         SKEH T         HEAN D         S.D. D         SKEH D         HOBS P         NOBS F         NOBS F< | HEAN P         S.D. P         SKEH P         FEAN T         S.D. T         SKEH T         FEAN D         S.D. D         SKEH D         HEAN D         S.D. D< | PEAN P         S.D. P         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. D         S.D. D         SKEW D         NOBS P         NOBS I         NOBS P         NOBS I         NOBS P         NOBS P< | PEAN P         S.D. P         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. T         SKEW P         PEAN I         S.D. D         S.D. D         SKEW P         PEAN I         S.D. D         S.D. D         SKEW P         DGG K         DG | PEAN P         S.D. P         SKEW P         PEAN I         S.D. T         SKEW I         PEAN D         S.D. D         SKEW I         SKEW I         SKEW I         SKEW I         SKEW I         SKEW I         SKEW I< | PEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SEC TOWN         SEC TOWN         S.D. T         SEC TOWN         SEC TOWN <th< th=""><th>PEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH P         PEAN D         S.D. D         SKEH D         NOBS T         NOBS T&lt;</th><th>HEAN P         S.D. P         SCEN P         FEAN I         S.D. T         SCEN I         PEAN I         S.D. D         SCEN I         DEG K         COFG K<!--</th--><th>HEAN D         S.D. P         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. D         SKEH P         MOBS P&lt;</th><th>HEAN P. S.D. P. SKEH P. HEAN I. S.D. T. SKEH I. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D.</th><th>HEAN P         S.D. P         SCEN P         PEAN N         S.D. T         SKCH T         MAS N         S.D. D         SCEN P         MOSS N         MOSS N<!--</th--><th>HEAN P         S.D. P         SECH P         FEAN T         S.D. D         SECH P         FEAN T         S.D. D         SECH P         PEAN T         S.D. D         SECH P         PEAN T         S.D. D         SCH D         COTA T         COTA T<!--</th--></th></th></th></th<> | PEAN P         S.D. P         SKEH P         PEAN T         S.D. T         SKEH P         PEAN D         S.D. D         SKEH D         NOBS T         NOBS T< | HEAN P         S.D. P         SCEN P         FEAN I         S.D. T         SCEN I         PEAN I         S.D. D         SCEN I         DEG K         COFG K </th <th>HEAN D         S.D. P         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. D         SKEH P         MOBS P&lt;</th> <th>HEAN P. S.D. P. SKEH P. HEAN I. S.D. T. SKEH I. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D.</th> <th>HEAN P         S.D. P         SCEN P         PEAN N         S.D. T         SKCH T         MAS N         S.D. D         SCEN P         MOSS N         MOSS N<!--</th--><th>HEAN P         S.D. P         SECH P         FEAN T         S.D. D         SECH P         FEAN T         S.D. D         SECH P         PEAN T         S.D. D         SECH P         PEAN T         S.D. D         SCH D         COTA T         COTA T<!--</th--></th></th> | HEAN D         S.D. P         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. T         SKEH P         FEAN T         S.D. D         SKEH P         MOBS P< | HEAN P. S.D. P. SKEH P. HEAN I. S.D. T. SKEH I. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. D. S.D. D. SKEH D. NOBS P. NOBS T. N. HEAN D. S.D. | HEAN P         S.D. P         SCEN P         PEAN N         S.D. T         SKCH T         MAS N         S.D. D         SCEN P         MOSS N         MOSS N </th <th>HEAN P         S.D. P         SECH P         FEAN T         S.D. D         SECH P         FEAN T         S.D. D         SECH P         PEAN T         S.D. D         SECH P         PEAN T         S.D. D         SCH D         COTA T         COTA T<!--</th--></th> | HEAN P         S.D. P         SECH P         FEAN T         S.D. D         SECH P         FEAN T         S.D. D         SECH P         PEAN T         S.D. D         SECH P         PEAN T         S.D. D         SCH D         COTA T         COTA T </th |

	NOBS T NOBS D					_	_																											14550. 14560. 14560. 14518. 14518. 14518. 14518. 14446. 14446. 14446. 14446. 14446. 14446. 14446. 14534. 14534. 14534. 13354. 13354. 13354. 13354. 13354. 13354. 125422. 1254222. 125422. 125422. 125422. 125422. 125422. 125422. 125422. 1254222. 125422. 125
	d SBON		13967.	13967.	14599.	14598.	14596.	1'+595.	14595.	14593.	14582.	44.72	14564.		14550.	14550.	14550. 14518. 14481.	14550. 14518. 14481. 14446.	14550. 14518. 14481. 1446.	14550. 1450. 14481. 1446. 1446.	14550. 14481. 14460. 14460. 14860.	14550. 14481. 14481. 1446. 14460. 14363. 14363.	14550. 14481. 14481. 14480. 14280. 14280. 14080.	14550. 14481. 14481. 14481. 14600. 14295. 14000. 14000. 1300.	14550. 14481. 14481. 14466. 14343. 14295. 1400. 1400. 13054.	14550. 14618. 14448. 14440. 14400. 14343. 14395. 13058. 13058.	14550. 14518. 14461. 14461. 14343. 14343. 14363. 14363. 13354. 13336.	14550. 14518. 144481. 144481. 14295. 14295. 14295. 14295. 14295. 14295. 14295. 14295. 14295. 14295. 14295. 14295. 14295. 14295.	14550. 14518. 14518. 14518. 14518. 14518. 14518. 14518. 14518. 14518. 13336. 13336.	14550. 14518. 14481. 14481. 14343. 14363. 141808. 14088. 14088. 13351.	14550. 14518. 144481. 144481. 14343. 14343. 14354. 13354. 13354. 13318. 12542. 12313.	14550. 14518. 14461. 14461. 14400. 14400. 14343. 14363. 1336. 1336. 1336. 12319. 1111.	14550. 14618. 14481. 14481. 14481. 14480. 14383. 14088. 13354. 13354. 13356. 12542. 12542. 16319.	14550. 14518. 14481. 14481. 14400. 14400. 14700. 14700. 14700. 173
	SKEM D		.17	59.	.03	<u>9</u>	ي.	ř.	ß.	.60	.37	<i>3</i> .	84.1-		-1.85	 86 86	88. 88. 	-1.82 -1.28 66	-1,82 -1,28 -,56 -,17	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	28.1. 88.1. 88.1. 7.1. 8.1. 8.1. 8.1. 8.1	28. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	86.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	8. 8. 6. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	<b>88.</b> 8. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	<b>28.5 2.</b> 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	<b>88.83</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	288 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.1.7. 7.1.7. 7.1.7. 7.1.7. 7.1.0. 7.0. 7	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	S.D. 0	G/M3	73.610°	51.1400	46.5000	35.0900	25.8800	17.3500	11.5700	9.∿380	6.5050	(A)	5.8210	0000	08:1/:9	12.290	12.2930 14.3600	12.2900 14.3600 13.9700	12.290 14.3600 13.9700	12.2930 14.3600 13.9700 12.5300	12.2930 14.3600 13.9700 12.5300 10.9500	12.2930 14.3600 13.9700 12.5300 10.9500 9.0310	12.2930 14.3930 13.3900 12.5300 10.9500 9.0310	12.5300 13.9700 13.9700 10.9500 9.0310 6.0770	12.5300 13.9700 12.5300 10.9500 9.0310 6.9020 5.9700 2.8530	1. 739 1. 360 1. 360 1. 530 1. 530 1. 0. 950 9. 0. 950	16.7530 14.3690 18.5900 10.5900 10.5900 9.0310 5.070 5.070 5.2540 1.6450	18. (290) 14. 3600 15. (290) 16. (290) 17. (290) 18. (290) 19. (29	16 2 29 20 11 2 15 20 20 20 20 20 20 20 20 20 20 20 20 20	6 - 7530 14 - 8690 17 - 8690 18 - 5300 10 - 5300 10 - 5300 10 - 5300 10 - 5400 10 - 54	18.2930 14.3690 13.9700 12.5300 10.9500 9.0310 9.0310 5.0700 3.7160 5.2540 1.8450 1.3730 1.3730	9. 23. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	9.05.9.9.00 9.05.9.9.00 9.05.9.9.00 9.05.9.9.00 9.05.9.9.00 9.05.9.9.9.00 9.05.9.9.9.00 9.05.9.9.9.00 9.05.9.9.00 9.05.9.9.00 9.05.9.9.00 9.05.	13. 950 14. 360 15. 950 16. 950 16. 950 16. 950 16. 950 17. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16
INNOAL	MEAN D	G/M3	1209.0000	10-37.0000	1056.0000	990.0000	<b>B</b> 98.1000	812.5300	732.5000	659.2000	591.6000	539,0000	473.2000	419.8000		369.0000	369.0000	369.0000 320.4000 275.7000	369.0000 320.4000 275.7000 237.0000	369.0000 320.4000 275.7000 237.0000 203.8000	359.0000 320.4000 275.7000 237.0000 203.8000 174.5000	359.0000 320.4000 275.7000 237.0000 203.8000 174.5000	359.0000 320.4000 275.7000 237.0000 203.8000 174.5000 186.4000	359.0000 320.4000 275.7000 203.8000 174.5000 186.4000	359.0000 320.4000 275.7000 233.8000 174.5000 148.7000 167.3000 91.0500	369.0000 320.4000 275.7000 203.8000 174.5000 126.4000 107.3000 91.0500 77.4300	369.0000 370.4000 275.7000 203.8000 174.5000 174.5000 174.5000 177.3000 77.4300 65.6500	369.0000 370.4000 275.7000 203.8000 174.5007 146.7000 107.3000 91.0500 57.4300 55.9500 56.0700	369.0000 275.4000 237.0000 203.8000 174.5000 1174.5000 1174.5000 1174.5000 107.3000 91.0500 77.4300 65.6500 77.4300	369.0000 320.4000 237.0000 237.0000 1174.2000 1174.2000 1177.4300 77.4300 65.8500 65.8500 65.8500 65.8500	369.0000 320.4000 237.0000 203.8000 174.5000 174.5000 191.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500 791.0500	369.0000 370.4000 237.0000 237.0000 114.5000 117.5000 107.3000 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500	369.0000 320.4000 237.0000 237.0000 1174.2000 1174.2000 107.3000 91.0500 77.43	369.0000 320.4000 237.0000 203.8000 174.5000 107.3000 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500 91.0500
₹	SKEM T		£.	æ,	82.			20																										80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AMETERS,	S.D. T	DEG K	¥.4	12.19	11.67	10.21	\$ . 0	8.43 63	7.79	17.7	٠. بو	8	7.17	6.33		59:50	19. 19. 19. 18.	ጥጥት ያቸቴ	10.03.3 10.85.20	ម្ចាស់ក្នុងភ្ ស្តីស្តីស្តីស្តី			្រុមក្រុងអ្នក ស្រុកក្រុងអ្នក ស្រុកក្រុងអ្នក				លេខក្រុមស្លេខភេឌ លេខក្រុមស្តេខ <b>ភេស</b> លេសស្តស្តេច <b>ខេស្</b>					######################################	លេខក្រុម ទី១៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩៩	เพพงง รางงาน พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.พ.
HERMODYNAMIC STATISTICAL PARAMETERS DUGHAY (SALT LAKE CITY)	_	DEG <b>X</b>	292.33	286.2 <del>8</del> 6	£.	94 78	N. K.	367.56	280.77	33.88 188	246.89	\$ .B.	232.35	225.63		250.02	220.92 217.15	220.9 217.9 216.19	220.94 217.7 216.19	220.94 217.94 216.19 214.80	220.09 217.09 216.19 214.80 213.15	220.24 217.19 217.80 213.15 213.15	98.55 9.56.58 9.56.58 9.56.58	220.92 21.73 21.4.80 21.3.15 21.2.08 21.2.99	220.92 21.23 21.33 21.33 21.33 21.33 21.33 21.33 21.33 21.33 21.33	220 227 227 227 227 237 237 247 257 257 257 257 257 257 257 257 257 25	220.29 21.59 21.50	28.02.02.02.03.03.03.03.03.03.03.03.03.03.03.03.03.	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	26.00	289 28 28 28 28 28 28 28 28 28 28 28 28 28	28 28 28 28 28 28 28 28 28 28 28 28 28 2
ERMODYNAMIC STATISI DUGWAY (SALT LAKE	9XEH P		9.	61.	3.	1.64	57	3.1	.37	-36	35	ń	29	17		₹ -	9.	90. 9 -	¥9 90 19 19 19 19 19 19 19 19	40 90. 8일. 동일. 독일.	40. 80. 84. 도착 54. 도착	- 20 - 20	90 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	90 80 81 1 1 1 1 1 1 1	9	90. 90. 93. 93. 93. 93. 93. 93. 93. 93. 93. 94. 95. 95. 95. 96. 96. 96. 96. 96. 96. 96. 96. 96. 96	호 <b></b>	후 - - 	+ 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	후 . 6	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$	수 6 년 8 년 8 년 8 년 8 년 8 년 8 년 8 년 8 년 8 년	\$ 9 <b>2 5</b> 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
THE PHODYNA DUGHAY	S.D. P	Ē	10.8630	6.3847	5.8259	5.4983	6.6001	8.0¥86	9.1622	9.6825	10.2820	10.5030	10.4540	10.0700		9.3293	9.3293 8.2268	9.3293 8.2268 7.0506	9. 3293 8. 2269 7. 0506 5. 8669	9.3293 8.2268 7.0506 5.8669	9.3293 8.2268 7.0506 5.8669 4.773	9.3293 9.2268 7.0506 5.8669 4.7771 3.8684	9.3293 8.2268 7.0506 5.8669 4.7771 3.8684 3.1503	9. 3293 9. 2268 5. 8669 4. 777 3. 868 3. 1503 2. 6098	9. 3293 9. 2268 5. 8669 4. 7771 3. 8684 3. 1568 2. 6098 2. 2191	9. 3293 9. 2268 7. 0506 5. 8669 4. 777 3. 1503 2. 2. 181 1. 9251 1. 6996	9.3293 9.2268 7.0506 5.8669 4.7771 3.18684 3.1503 2.6098 2.2191 1.9251 1.5088	9. X93 9. X93 9. X268 5. 8669 3. 18694 2. 2. 191 1. 9251 1. 5936 1. 3568	9. 293 7. 0268 7. 0268 5. 0669 3. 1503 2. 6098 2. 2. 2191 1. 5098 1. 5098 1. 5098 1. 5098 1. 5098	9. 293 9. 293 9. 669 5. 869 9. 699 1. 699 1. 508 1. 508	9. 293 9. 293 9. 2268 5. 8669 3. 669 2. 2. 81 1. 925 1. 5088 1. 5088 1. 5088 1. 5088 1. 5088 1. 5088 1. 5088 1. 5088 1. 5088 1. 5088	9. 293 9. 293 9. 293 9. 293 9. 293 1. 293 1. 358 1. 358	9. 293 7. 0268 7. 0266 5. 8669 3. 1503 2. 6098 1. 5098 1. 5098 1. 5098 1. 2088 1. 2184 1. 2184 2. 2194 3. 3012 3. 3012 3. 3012 3. 3012 3. 3012	9. 293 9. 293 9. 2066 9. 6669 3. 1503 2. 6096 1. 508 1. 508 1. 1068 1. 1068 1. 1068 1. 2018 1. 2018 1. 2018 2. 2018
11. 13	4	<b>P</b>	. 5000	P. 2500	71.7100	00.1800	707.7800	524.0800	¥8.6100	90.6130	119.3700	£ • .6500	315.6800	272.0300		233.6000	233.6000 199.9800	233.6000 199.9800 170.9900	233,6000 199,9800 170,9900 146,0200	233.6000 199.9800 170.9900 146.6200	233.6000 199.9800 170.9900 146.0200 124.0700	233.6000 199.9800 170.9900 146.0200 124.5700 106.1600	233.6000 199.9800 170.9900 146.6200 124.5700 106.1600 90.4410	233.5000 199.9800 199.9800 146.0200 126.1200 90.4410 77.0700 65.7330	233.5000 199.9800 199.9800 146.5200 124.7700 90.4410 77.0700 65.7330 56.0960	233.5000 199.9800 146.6200 124.700 106.1600 90.4410 77.0700 55.7330 56.0950	233, 6000 170, 9900 170, 9900 176, 6200 124, 5700 164, 160 90, 4410 77, 0700 65, 7330 47, 9270 40, 9600	233,6000 199,9800 146,0200 106,1600 77,0700 65,7330 55,0960 47,9270 35,0960	233.5000 199.9800 1199.9800 1146.0200 124.700 90.4410 77.0700 77.0700 77.0700 77.0700 77.0700 77.0700 77.0700 77.0700 78.0900 85.0960 85.0960 83.0165	233.5000 170.9900 146.0200 106.1600 90.4410 77.0700 65.7330 56.0900 77.9270 77.9270 77.9270 77.9270 78.9270 90.0500 90.0500	233, 6000 199, 9800 146, 0200 106, 1600 106, 1600 77, 0700 65, 7330 65, 0960 46, 9800 33, 0140 25, 0960	233.6000 199.8800 146.6200 106.1600 77.0700 55.0960 47.8270 47.8270 47.8270 47.8270 55.0960 33.0140 33.0140 25.7310	233.5000 199.9800 146.0200 106.1009 77.0700 77	233,6000 199,900 146,0200 106,0200 107,020 107
	2		5	8	ø	₫	_	Φ	ц,	3	-																							

STATION	111.1 = 725720		RELATED ST		PARAMETER!	5. J	ANUARY				
2	VAPOR P	S.D. VP	SKEH VP	TV	TV	SKEH TV	NEWPT T	S.D. DPT	SKEN DET	NORS THE	NOBS TV
_	MEAN			MEAN	S.D.		MEAN	3.5. 5.	J. (3. )		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
KM	MB	MB		DEG K	DEG K		DEG K	DEG K			
.000	6.056	3.041	. 35	277.07	10.01	61	271.10	9.33	89	1160.	1160.
1.000	4.325	1.745	. 34	273.03	7.11	45	€7.40	6.00	80	1160.	1160.
1.298	3.903	1.502	. 34	271.76	6.48	39	266.18	5.51	81	1238.	12.8
2.000	2.894	1.292	. 78	270.59	5.97	29	252.1 <b>5</b>	5.89	36	1224.	1238.
3.000	2.104	1.094	. רד	265.32	6.21	34	257. <b>76</b>	6.85	- , 444	1150.	1237.
4.000	1.344	.818	.99	260.10	6.10	41	251 9 <b>7</b>	7 59	3+	1129.	1237.
5.000	.772	.521	1.30	254.15	6.25	43	245.50	7.70	30	1117.	1237.
<b>6.000</b>	.425	. 303	1.71	247.59	6.25	-,42	239.21	7.29	18	1071.	1235.
7.000	.225	. 147	1.72	240.55	6.06	31	233.29	6.30	25	910	1236
9.000	. 131	.069	1.28	233.40	5.48	06	228. <b>83</b>	4.75	13	485.	1235.
9.000	.091	.042	. 84	22 <b>6.36</b>	4.46	.26	225. <b>88</b>	₩.00	. 15	45.	1234.
10.000	<b>39.3</b> 39	<b>99</b> .930	399.32	دُخان. ٿ	3.77	. 30	993.09	53.33	<b>323</b> . 23	ŋ	1233.
11.000	<b>99</b> .939	99.993	<b>999</b> .99	216.24	4.76	.67	999. <b>99</b>	99.99	999.99	0.	1229.
12.000	<b>99</b> .999	99.999	<b>999</b> .99	215.21	6.15	.22	999.99	99.99	999.99	0.	1227.
13.000	<b>99</b> .999	99.999	999.99	215.97	5.65	38	999.99	99.99	<b>999</b> .99	0.	1555
14.000	<b>99</b> .993	99.999	999.99	215. <b>67</b>	4,44	18	999. <b>99</b>	99.99	999.99	0.	1221.
15.000	<b>9</b> 9.999	99.999	999.99	214.37	4.31	.01	999.99	99.99	999.99	0.	12:4.
16,000	<b>9</b> 9.999	99.999	999.99	213.03	4,54	01	999. <b>9</b> 9	99.99	999.99	0.	1210.
17.000	99.999	99.999	939.99	212.45	4.49	36	999.99	99.99	999.99	0.	1192.
18 000	<b>99</b> .999	99.999	999.99	212.48	4.09	42	999. <b>99</b>	39.99	999.99	0.	1177
19.000	<b>99</b> .939	99.999	999.99	212.77	3.78	46	999.99	99.99	999.99	۵.	1159.
20.000	99.939	99.999	999.99	c13.29	3.67	46	999.99	99.99	999.99	0.	1197.
21.000	99.939	99.939	599.99	213.84	3.54	46	999.99	99.99	999.99	0.	1100.
22.000	99.939	93.999	999.99	214.40	3.78	~.45	999. <b>99</b>	99.99	999.93	0.	1075.
23.000	99.939	99.999	999.99	214.93	3.92	53	939.99	99.99	999.93	0.	1049.
24.000	99.933	99.999	999.99	215.70	3.97	38	999 99	99.99	939.99	0.	1010.
25.000	99.909	99.999	999.99	216.50	4.00	16	999. <b>99</b>	<b>9</b> 9.99	999.99	С.	967.
26.000	99.999	99 399	999.99	217.33	4.08	.10	999.99	99.93	999.99	0.	907.
27.000	99.599	99 999	999.99	219.14	4.24	.13	999.99	99.99	999.99	0.	815.
23.000	99.933	99.999	939.39	219.05	4.47	.09	599.99	99.99	999.39	0.	719.
29.000	99.999	99.993	999.99	550.58	4.53	.02	993.39	99.99	939.99	0.	571. 443.
30.003	99.999	99.999	999 99	221 74	4.64	.17	993.99	99.39	993.99	0.	443.
	111. 2 - 725720	DUGHAY	RELATED ST	E CITY)		-	BRUARY				
Z	VAPOR P	S.D. VP	SKEW VP	TY	TV	SKEH TV	DEHPT T	S.D. DPT	SKEH DPT	NOBS T+P	NODS TV
	MEAN			MEAN	S.D.		MEAN				
ЖM	MB	MB		DEG K	DEG K		DEG K	DEG K			
. 000	7.793	3.118	. 36	293.05	9.14	38	275.40	6.36	79	1091.	109:
1.000	5.153	1.638	.46	277.29	6.56	08	270.21	4.47	43	1091.	1091.
1.299	4.543	1.405	. 444	275. <b>5</b> 4	6.05	01	268.56	4.31	50	1129	1129.

TABLE	111. 2	MOISTURE	RELATED ST	ATISTICAL	PARAMETERS	. FEE	RUARY				
STATION	<b>-</b> 725720	DUGHAY	SALT LAK	E CITY)							
Z	VAPOR P	S.D. VP	SKEW VP	1.4	TV	SKEH TV	DEHPT T	S.D. DPT	SKEH DPT	NOBS T+P	NODS TV
	MEAN			MEAN	S.D.		MEAN				
ЖM	MB	MB		DEG K	DEG K		DEG K	DEG K			
. 000	7.793	3.118	. 36	293.05	9.14	38	275.40	6.36	79	1091.	1091
1.000	5.153	1.638	.46	277.29	6.56	08	270.21	4.47	43	1091.	1091.
1.299	4.543	1.405	ر فه فه	<i>2</i> 75. <b>5</b> ↔	6.05	01	268. <b>56</b>	4.31	50	1129	1129.
≥.000	3.086	1.169	. 66	272.46	5.22	.00	263.30	4.96	29	1118.	1189
3.000	2.069	. 955	.63	<i>2</i> 65. <b>96</b>	5.34	20	257.90	6.06	45	1091.	1189.
4.000	1.223	.715	. 99	260.13	5.33	38	251.12	7.01	23	1046.	1129
5.000	. 598	.457	1.41	253.81	5.43	50	244.49	7.08	02	1014.	1129
6.000	. 3ს ქ	.267	2.11	246.89	5.51	-,44	237.75	ნ.⊎3	. Сы	<b>3</b> 00.	
7.000	. 135	.143	2.17	239.54	5.48	3b	231.75	6.35	. ! 0	<b>8</b> 00.	1169.
8.000	.124	.078	1.97	232.26	5.05	17	<b>2</b> 28.09	5.29	. 02	<b>3</b> 76.	1177
9.000	.126	074	. 29	225.21	4.15	. 10	226.03	6.03	23	12.	Heb
10.000	<b>99</b> .999	<b>9</b> 9.999	<b>999</b> .99	219.40	<b>3</b> .67	.57	993. <b>99</b>	<b>99</b> .99	<b>999</b> .99	1.	1175.
11.000	99.999	99.999	<b>99</b> 9.99	216.24	5.17	.64	993.99	<b>99</b> .99	<b>999</b> .99	С.	11.0
12.000	99.999	<b>99</b> .999	999.99	15.815	6.43	15	999.99	<b>9</b> 9.99	<b>939</b> .99	0.	1111
13.000	99.999	99.999	999.99	217.29	5.04	75	999.99	99.99	999.99	0.	11
14.000	99.993	<b>9</b> 9.999	999.39	216.82	3.81	28	599.99	99.99	<b>99</b> 3.99	0.	11 .
15.000	<b>99</b> .999	99.939	993.99	215.37	3.75	16	999.9 <b>9</b>	99.99	<b>99</b> 9.99	9.	1:11
16.000	<b>99</b> . 993	99.999	999.99	214.11	3.98	26	999. <b>99</b>	99.99	<b>93</b> 9 93	С.	11.7
17.000	99.959	99.999	993.99	213.31	3.98	50	999.9 <del>9</del>	99.99	993 93	0.	1050
18.000	<b>99</b> .939	99.999	999.93	213.05	3.79	45	999.99	ன் சம்	999.99	٥.	15-3
19.000	99.939	99.999	999.99	213.31	3.56	38	999.99	93.99	969 99	0.	1277
20.000	99.999	99.999	929.99	213.82	3.59	37	<b>9</b> 99.99	88 89	<b>9</b> 99.99	0.	1016
51 000	<b>99</b> 939	99.999	993 99	214.31	3.72	26	999. <b>99</b>	99.99	<b>93</b> 9.99	0.	10.1.
22.000	99.999	99.999	999. <b>99</b>	214.87	3.86	26	999 99	88 88	<b>3</b> 33 33	0.	968
23.000	<b>99</b> . 993	99. <b>999</b>	999.99	215.51	3.96	15	999.99	99.99	999 99	С.	96€.
24 . 600	<b>99</b> .999	99. <b>99</b> 9	999 . 99	210.29	3.97	18	999.59	<b>9</b> 9.59	999 39	٥.	3,
25.000	99 999	99 999	979.99	217.12	4.02	19	999 99	<b>99</b> . 99	999 99	0.	9;4
26.000	<b>99</b> .999	99 999	933.99	218.08	4.11	09	991 <b>99</b>	99 93	<b>36</b> 4 33	0.	Ðt →
ن ب ن د نے	والراواء فأفؤ	وور اوو	ษุษย์ เป็น	619.17	4 :6	.03	00+99	رن ټر	will co	0	7
28.000	<b>9</b> 9.99 <b>9</b>	99 999	599 99	550 <b>58</b>	4.29	. 07	999. <b>9</b> 9	99.93	r +9 -33	С.	€ +2°3
29.000	99.969	39 593	990, 99	221.44	4.43	02	999. <b>9</b> 9	99.99	<b>9</b> 99-99	Đ	ε.,
30.000	99 999	99 9 <b>99</b>	999 39	222.73	4 - 56	01	949.99	99 99	<del>8</del> 88 48	0.	•5

TABLE STATION	111. 3 • 725720		RELATED ST		PARAMETERS	. ни	RCH				
Z	VAPOR P	S.D. VP	SKLH VP	TV	tv	SKEH TV	DEHPT T	S.D. DPT	SKEH DPT	NOBS THP	HOBS TV
	MEAN			MEAN	5.D.		MEAN				
KM	MB	M3		DEC K	DEG K		DEG K	DEGK	_		
.000	8.964 5.607	3.140 1.717	.43	288.48	9.48	.08	277.72	5.31	45	1205.	1205.
1.000 1.288	4.876	1.498	. 44 . 39	201.27 279.21	7.26 6.80	.23 .24	271.40 269.51	4.31 4.28	34 39	1205. 1232.	1205.
2.000	3.190	1.165	. 54	274.51	5.86	.13	263.76	4.85	32	1221.	1 <b>23</b> 2. 1 <b>23</b> 1.
3.000	2.129	.921	.47	267.12	5.72	08	258. <b>38</b>	5.73	48	1205.	1231.
4.000	1.276	.693	. 71	260.57	5.38	37	251. <b>76</b>	6.80	37	1145.	1231.
5.300	.697	. 435	1.03	254.06	5.31	53	244.73	6.99	16	1099.	1231.
6.000	. 366	.250	1.46	247.10	5.44	55	237.91	6.77	04	1048.	123: .
7.000 8.000	.190	.127 .063	1.67 1.15	239.73 232.37	5.50 5.01	56 17	231.7 <b>3</b> 227.0 <b>3</b>	6.12	08	904.	1227.
9.000	.095	.039	01	225.33	4.14	.07	226.31	5.51 4.15	+.72 62	446. 21.	1226. 1225.
10.000	<b>99</b> .555	99.595	999.99	219.73	3.59	.26	5.9.95	99.99	<b>9</b> 99,99	5.	1207.
11.000	99.999	99.999	<b>99</b> 9.99	216 76	4.75	.51	999.99	99.99	999.99	۵.	1219
12.000	99.939	<b>99</b> .999	999.99	216.63	6.13	17	999.99	99.99	<b>999.9</b> 9	0.	1215.
13.000	99.999	99.999	999.99	217.61	5.04	65	999.39	99.99	999.99	0.	1211.
14.000	99.999	99.999	999.99	217.26	3.81	18	939.93	99.99	999.99	0.	1208.
15.000 16.000	99.939 99.999	99.999 99.999	999.99 999.99	216.11 215.12	3.54 3.57	04 29	999.99 <b>9</b> 99.99	99.99 99.99	999.99 993.99	0. 0.	1202.
17.000	99.999	99.999	999.99	214.64	3.38	38	999.99	99.99	999.99	0.	1197. 11 <del>9</del> 9.
18.000	99.933	99.999	999.99	2:4.41	3.06	45	999.99	99.99	999.99	0.	1179.
19.000	99.999	99.999	999.99	214.48	2.88	46	999.09	99.99	999.99	0.	1165.
20.000	<b>9</b> 9.999	99.999	999.99	214.84	2.82	33	999.99	99.99	999.99	٥.	1154.
21.000	99.999	99.999	999.99	215.40	2.85	09	999.99	S3.99	999.93	0.	1107.
22.000	99.993	99.999	999.99	216.01	2.95	.11	999.99	99.99	999.99	0.	1005.
23.000 24.000	99.999 99.999	99.999 99.999	999.99 999.99	216.69 217.35	2.96	.20	999.33 999.39	99.99 99.99	999.99	0.	1059.
25.000	99.999	99.999	999.99	218.13	3.12 3. <b>3</b> 2	.23 .18	999 99	99.99	999.99 999.99	0. 0.	10≒5. 1007.
26.000	99.999	99.999	999.99	219.10	3.52	.23	999.99	99.99	999.99	0.	939.
27.000	99.999	99.393	999.99	220.25	3.69	.28	993.99	Seg. 99	999.99	0.	<b>8</b> 46.
28.000	99.999	99.999	999.99	221.46	3.78	.29	999.93	99.99	999.39	0.	744,
29.000	99.999	99.999	999 99	222.74	3.83	. 23	99.99	99.99	999.99	0.	624
33.000	99.533	93.539	999.99	224.46	4.10	.21	993.99	99.99	993.99	0.	505
	111. 4 • 725720	DUGHA	Y (SALT LAK	E CITY)	PARAMETERS	-	PRIL				
	<ul> <li>725720</li> <li>VAPOR P</li> </ul>			E CITY)	TV	S, AI	DEMPT T	S.D. OPT	SKEH OPT	NOBS THP	NOBS TV
STATION Z	= 725720 VAPOR P MEAN	DUGHA' S.D. VP	Y (SALT LAK	E CITY) TV MEAN	TV 5.D.	-	DEMPT T MEAN		SKEH DPT	NOBS THP	NOBS TV
STATION Z KM	T25720 VAPOR P MEAN MB	DUGHA' S.D. VP MB	Y (SALT LAK	E CITY)	TV	-	DEMPT T	S.D. DPT DEG K 4.66	SKEH OPT	NOBS T+P	NOBS TV
STATION Z	= 725720 VAPOR P MEAN	DUGHA' S.D. VP	Y (SALT LAK SKEH VP	E CITY) TV MEAN DEG K	TV S.D. DEG K	SKEH TY	DEMPT T MEAN DEG K	DEG K	32 31	1178. 1178.	
STATION Z  KM .000 1.000 1.298	<ul> <li>725720</li> <li>VAPOR P</li> <li>MEAN</li> <li>MB</li> <li>10.284</li> <li>6.378</li> <li>5.546</li> </ul>	DUGHA' 5.D. VP MB 3.170 1.755 1.549	Y (SALT LAK SKEH VP .43 .49 .43	E CITY) TV MEAN DEG K 293.21 285.46 283.34	TV 5.D. DEG K 9.77 7.45 6.95	SKEH TV .24 .43	DEMPT T MEAN DEG K 279.90 273.28 271 35	DEG K 4.66 3.89 3.93	32 31 39	1178. 1178. 1202.	1178. 1178. !203.
STATION Z KM .000 1.000 1.298 2.000	• 725720 VAPOR P HEAN MB 10.284 6.378 5.546 3.711	DUGHA 5.D. VP MB 3.170 1.755 1.549 1.195	Y (SALT LAK SKEW VP .43 .49 .43	E CITY) TV MEAN DEG K 293.21 285.46 283.34 278.36	TV S.D. DEG K 9.77 7.45 6.95 5.80	.24 .43 .46	DEWPT T MEAN DEG K 279.90 273.28 271.35 265.89	DEG K 4.66 3.89 3.93 4.28	<b>32</b> <b>31</b> 39 23	1178. 1178. 1202. 1177.	1178. 1178. 1202.
STATION Z  KM .000 1.000 1.298 2.000 3.000	• 725720 VAPOR P HEAN MB 10.284 6.378 5.546 3.711 2.517	DUGHA' 5.0. VP MB 3.170 1.755 1.549 1.195 .884	Y (SALT LAK SKEW VP .43 .49 .43 .51 .43	E CITY) TV MEAN DEG K 293.21 285.46 283.34 278.36 270.43	TV S.D. DEG K 9.77 7.45 6.95 5.80 5.50	.24 .43 .46 .31	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34	DEG K 4.66 3.89 3.93 4.28 4.62	<b>32</b> <b>31</b> 39 23 46	1178. 1178. 1202. 1177. 1178.	1178. 1178. 1202. 1202.
STATION Z  KM .000 1.000 1.298 2.000 3.000 4.000	= 725720 VAPOR P MEAN MB 10.284 6.378 5.546 3.711 2.517 1.506	DUGHA' S.D. VP MB 3.170 1.755 1.549 1.195 .884 .703	Y (SALT LAK SKEW VP .43 .49 .43 .51 .43	E CITY) TV MEAN DEG K 293.21 285.46 283.34 278.36 270.43 263.20	TV S.D. DEG K 9.77 7.45 6.95 5.80 5.50 5.10	.24 .43 .46 .31 .17	DEMPT T MEAN DEG K 279.20 273.28 271.35 265.89 260.34 254.07	DEG K 4.66 3.89 3.93 4.28 4.62 6.06	32 31 39 23 46 53	1178. 1178. 1202. 1177. 1178.	1178 1178 1203 1203 1203 1203
STATION Z  KM .000 1.000 1.298 2.000 3.000 4.000 5.000	= 725720 VAPOR P HEAN M8 10.284 6.378 5.546 3.711 2.517 1.506 .929	DUGHA' S.D. VP MB 3.170 1.755 1.549 1.195 .884 .703	Y (SALT LAK SKEW VP .43 .49 .43 .51 .51	E CITY) TV MEAN DEG K 293.21 285.46 283.39 278.36 270.43 263.20 256.30	TV S.D. DEG K 9.77 7.45 6.95 5.80 5.50 5.10 4.87	.24 .43 .46 .31 .17 13 38	DEHPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32	32 31 39 23 46 53 37	1178, 1178, 1202, 1177, 1178, 1152,	1178. 1178. 1202. 1202.
STATION Z  KM .000 1.000 1.298 2.000 3.000 4.000	■ 725720 VAPOR P HEAN HB 10.284 6.378 5.546 3.711 2.517 1.506 .028 +13	DUGHA' 5.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477 .265	Y (SALT LAK SKEW VP .43 .49 .43 .51 .43	E CITY) TV MEAN DEG K 293.21 285.46 283.34 278.36 270.43 263.20	TV S.D. DEG K 9.77 7.45 6.95 5.80 5.50 5.10	.24 .43 .46 .31 .17	DEMPT T MEAN DEG K 279.20 273.28 271.35 265.89 260.34 254.07	DEG K 4.66 3.89 3.93 4.28 4.62 6.06	32 31 39 23 46 53	1178. 1178. 1202. 1177. 1178.	1178 . 1178 . 1202 . 1202 . 1202 . 1202 . 1202 .
KM .000 1.000 1.298 2.000 3.000 4.000 5.000 0.300	= 725720 VAPOR P HEAN M8 10.284 6.378 5.546 3.711 2.517 1.506 .929	DUGHA' S.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477	Y (SALT LAK SKEH VP .43 .49 .43 .51 .43 .51	E CITY) TY MEAN DEG K 293.21 285.46 283.34 276.36 270.43 263.20 256.30 249.24	TV S.D. DEG K 9.77 7.45 6.95 5.80 5.50 5.10 4.87	.24 .43 .46 .31 .17 13 38	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 232.23 232.57	DEG K 4.66 3.89 3.93 4.68 4.62 6.06 6.32 6.46 5.68	32 31 23 46 53 37 27	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1001. 978. 600.	1178 - 1178 - 1203 - 1202 - 1202 - 1203 - 1203 - 1203 - 1203 - 1203 - 1203 - 1203 - 1203 -
STATION Z  KM .000 1.000 1.298 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000	■ 725720 VAPOR P MEAN MB 10.289 6.378 5.596 3.711 2.517 1.506 .828 913 .210 .116 .1113	DUGHA' S.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477 .265 .136 .071	Y (SALT LAM SKEW VP .43 .49 .43 .51 .43 .51 .77 1.22 1.50 1.45	E CITY) TV MEAN DEG K 293.21 285.46 283.34 278.36 270.43 263.20 256.30 249.24 241.89 234.57 227.47	TV S.D. DEG K 9.77 7.45 6.95 5.80 5.50 9.87 4.91 4.63	.24 .43 .46 .31 .17 13 48 47 39	DEMPT T MEAN DEG K 279.90 273.28 265.89 260.34 254.07 246.75 239.23 232.57 227.32	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.70 6.46 5.68	32 31 39 23 46 53 37 22 49 41	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1202. 1202. 1203.
STATION Z  KM .000 1.000 1.208 2.000 3.000 4.000 5.000 0.300 7.000 8.000 9.000 10.000	• 725720 VAPOR P MEAN MB 10.284 6.378 5.546 3.711 2.517 1.506 .828 413 .210 .116 .113	DUGHA' S.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477 .285 .136 .071 .042 99.999	Y (SALT LAM SKEW VP .43 .49 .43 .51 .43 .51 .43 .51 .45 .150 1.45 1.66 999.99	E CITY) TV MEAN DEG K 293.21 285.46 283.34 270.43 263.20 256.30 249.24 241.89 234.57 227.47 221.57	TV 5.0. DEG K 9.77 7.45 6.95 5.80 5.50 5.10 4.87 4.94 4.91 4.63 3.90	SKEH TV  .24 .43 .46 .31 .17 -133846473915 .01	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 237.77 9999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.70 6.46 5.68 3.76	32 31 39 23 46 53 37 27 45 41 56	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1203.
STATION Z  KM .000 1.000 1.298 2.000 3.000 4.000 5.000 6.300 7.000 8.000 9.000 10.000 11.000	• 725720 VAPOR P HEAN HB 10.284 6.378 5.546 3.7711 2.517 1.506 .828 +113 .210 .116 .113 99.999	DUGHA' 5.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477 .265 .136 .071 .042 99.999 99.999	Y (SALT LAM SKEW VP .43 .49 .43 .51 .77 .77 1.22 1.50 1.45 .06 999.99	E CITY) TV MEAN DEG K 293.21 285.46 283.34 270.43 263.20 256.20 256.20 256.37 241.89 234.57 221.57 221.57	TV S.O. DEG K 9.77 7.45 6.95 5.80 5.10 4.87 4.91 4.63 3.90 3.25	SKEH TV  .24 .43 .46 .31 .171338473915 .01 .69	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 232.57 227.37 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.46 5.68 3.76 99.99	32 31 39 46 53 37 27 45 41 56 999.99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 9.	1178. 1178. 1203. 1202. 1202. 1203. 1203. 1203. 1203. 1203. 1203. 1203. 1203. 1193. 1193.
FTATION 2  KM .000 1.000 1.208 2.000 3.000 4.000 5.000 6.000 6.000 10.000 11.000 12.000	• 725720 VAPOR P HEAN HB 10.284 6.378 5.546 3.711 2.517 1.506 .828 +13 .210 .116 .113 99.999 99.999	DUGHA' 5.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477 .255 .071 .042 99.999 99.999	Y (SALT LAM SKEN VP .43 .49 .43 .51 .77 1.22 1.50 1.45 .06 999.99 999.99	E CITY) TV MEAN DEG K 293.21 285.46 285.46 270.43 263.20 256.30 249.24 241.89 234.57 227.47 221.57	TV S.D. DEG K 9.77 7,45 6.95 5.80 5.50 5.10 4.87 4.91 4.63 3.90 3.25 4.25	SKEH TV  .24 .43 .46 .31 .17133848473915 .01 .69	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 232.57 227.32 227.97 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.76 5.68 3.76 99.99	32 31 39 23 46 53 37 27 45 41 56 999.99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1203. 1203. 1203. 1203.
STATION Z  KM .000 1.000 1.298 2.000 3.000 4.000 4.000 6.000 6.000 10.000 11.000 12.000 13.000	• 725720 VAPOR P MEAN MB 10.284 6.378 5.546 3.711 2.517 1.506 .828 +13 .210 .116 .113 .99.999 99.999 99.999	DUGHA' S.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477 .265 .071 .042 99.999 99.999 99.999	Y (SALT LAM SKEW VP .43 .49 .43 .51 .43 .51 .77 1.22 1.50 1.45 .99.99 999.99	E CITY) TV MEAN DEG K 293.21 285.46 283.39 278.36 270.43 263.20 256.30 249.24 241.89 234.57 227.47 221.57 216.64 217.30	TV 5.0. DEG K 9.77 7.45 6.95 5.80 5.50 5.10 4.94 4.91 4.63 3.90 3.25 4.25 5.77	.24 .43 .46 .31 .17 -13 -38 -48 -47 -39 -15 .01	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 232.57 227.37 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.46 5.68 3.76 99.99	32 31 39 46 53 37 27 45 41 56 999.99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 9.	1178. 1178. 1203. 1202. 1202. 1203. 1203. 1203. 1203. 1203. 1203. 1203. 1203. 1193. 1193.
FTATION 2  KM .000 1.000 1.208 2.000 3.000 4.000 5.000 6.000 6.000 10.000 11.000 12.000	• 725720 VAPOR P HEAN HB 10.284 6.378 5.546 3.711 2.517 1.506 .828 +13 .210 .116 .113 99.999 99.999	DUGHA' 5.D. VP MB 3.170 1.755 1.549 1.195 .884 .703 .477 .255 .071 .042 99.999 99.999	Y (SALT LAM SKEN VP .43 .49 .43 .51 .77 1.22 1.50 1.45 .06 999.99 999.99	E CITY) TV MEAN DEG K 293.21 285.46 285.46 270.43 263.20 256.30 249.24 241.89 234.57 227.47 221.57	TV S.D. DEG K 9.77 7,45 6.95 5.80 5.50 5.10 4.87 4.91 4.63 3.90 3.25 4.25	SKEH TV  .24 .43 .46 .31 .17133848473915 .01 .69	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 232.57 227.32 227.97 999.99 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.76 6.46 5.68 3.76 99.99 99.99	32 31 39 23 46 53 37 27 41 56 999 . 99 999 . 99 999 . 99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 9. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1193. 1194. 1194. 1194. 1194.
FTATION Z  KM .000 1.000 1.298 2.000 3.000 4.000 5.000 0.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000	• 725720 VAPOR P MEAN MB 10.264 6.378 5.546 3.711 2.517 1.506 .828 .413 .210 .116 .113 99.999 99.999 99.999 99.999 99.999 99.999	DUGHA'S.D. VP  MB 3.170 1.755 1.549 1.195 .884 .703 .477 .255 .136 .071 .042 99.999 99.999 99.999 99.999 99.999	Y (SALT LAM SKEN VP .43 .49 .43 .51 .77 1.22 1.45 .06 999.99 999.99 999.99	E CITY) TV MEAN DEG K 293.21 285.46 285.46 270.43 263.20 256.24 241.89 234.57 227.47 221.77 216.64 217.30 216.39 215.64	TV S.D. DEG K 9.77 7.45 6.95 5.50 5.10 4.87 4.91 4.63 3.90 3.25 5.77 5.28 3.95 4.83	SKEH TV  .24 .43 .46 .31 .17133846473915 .01 .69 .145326 .0302	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 233.23 232.57 227.32 227.97 999.99 999.99 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.76 6.46 5.68 3.76 99.99 99.99	32 31 39 23 46 53 37 27 41 56 999 . 99 999 . 99 999 . 99 999 . 99 999 . 99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 0. 0. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1203. 1203. 1203. 1204. 1204. 1204. 1204. 1205. 1206. 1206. 1207. 1208.
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FTATION Z  KM .000 1.000 1.298 2.000 3.000 4.000 5.000 0.300 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 16.000 17.000	• 725720 VAPOR P HEAN MB 10.284 6.378 5.546 3.711 2.517 1.506 .828 +113 .210 .116 .1113 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	DUGHA'S.D. VP  MB 3.170 1.755 1.549 1.195 1.884 703 477 2.855 1.36 0.71 0.92 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SALT LAM SKEW VP .43 .49 .43 .51 .43 .51 .77 1.22 1.50 1.45 1.95 999.99 999.99 999.99 999.99 999.99 999.99	E CITY) TYV MEAN DEG K 293.21 285.46 283.39 478.36 270.43 263.20 256.30 249.24 241.89 234.57 227.47 221.57 217.77 216.64 217.29 216.39 216.39 215.64 215.64	TV 5.0. DEG K 9.77 7.45 6.95 5.80 5.10 4.91 4.63 3.90 3.25 5.77 5.28 3.48 3.47 3.48	SKEH TV  .24 .43 .46 .47 -13 -38 -47 -39 -15 .01 .69 .14 -53 -26 .03 -02 -31	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 237.37 299.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.05 6.92 6.76 6.99 99.99 99.99 99.99	32 31 39 23 46 53 41 56 41 56 999. 99 999. 99 999. 99 999. 99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 0. 0. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1193. 1193. 1194. 1194. 1199. 1199. 1199. 1199.
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STATION Z  KM000 1000 1298 2000 3000 4000 5000 6000 10000 10000 11000 12000 13000 14000 15000 16000 17000 16000 19000 19000 19000	• 725720 VAPOR P MEAN MB 10.284 6.378 5.546 3.711 2.517 1.506 .928 .913 .210 .116 .113 99.999	DUGHA'S.D. VP  MB 3.170 1.755 1.549 1.195 .884 .703 .477 .255 .136 .071 .042 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SALT LAM SKEW VP .43 .43 .51 .43 .51 .77 1.22 1.50 999.99 999.99 999.99 999.99 999.99 999.99 999.99	E CITY) TV MEAN DEG K 297.21 285.46 283.34 278.36 270.43 263.20 249.24 241.89 234.57 227.47 221.57 217.30 217.30 217.30 217.31 216.64 215.13 214.83 214.87 215.24	TV 5.0. DEG K 9.77 7.45 6.80 5.50 5.10 4.91 4.91 4.93 3.25 5.28 3.47 5.81 5.28 3.47 5.81 6.	SKEH TV  .24 .43 .46 .31 .17 -13 -18 -148 -17 -15 .01 .69 .14 -53 -26 .03 -02 -21 -31 -03	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 232.57 227.32 227.97 999.99 999.99 999.99 999.99 999.99 999.99 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.76 6.46 5.68 3.76 99.99 99.99 99.99 99.99	32 31 39 23 46 53 37 27 41 56 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 9. 0. 0. 0. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1203. 1203. 1203. 1203. 1204. 1204. 1204. 1205. 1206. 1207. 1207. 1208. 1209.
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## .000 1.000 1.200 3.000 4.000 5.000 6.000 7.000 10.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 16.000 17.000 18.000 20.000 21.000 24.000 25.000 25.000	• 725720 VAPOR P HEAN MB 10.264 6.378 5.546 3.711 2.517 1.506 9.929 99.939 99.9	DUGHA'S.D. VP  MB 3.170 1.755 1.549 1.195 .884 .703 .477 .255 .136 .071 .042 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SALT LAK SKEW VP .43 .43 .51 .43 .51 .22 1.50 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	E CITY) TV MEAN DEG K 297: 21 285: 46 283: 34 278: 36 270: 43 263: 27 27: 47 221: 57 227: 47 221: 57 215: 64 215: 13 214: 87 215: 82 216: 57 217: 40 218: 32 219: 74 221: 57 215: 44 215: 82 216: 57 217: 40 218: 32 219: 74 221: 55	TV 5.0. K 9.77 7.95 6.80 5.10 4.91 4.91 4.91 5.25 5.25 5.28 5.25 5.28 5.34 6.39	SKEH TV  .24 .43 .46 .31 .17 -13 -38 -47 -39 -15 .01 .69 .145306 .0302213103 .20 .15 .10 .11 .17 .00	DEMPT T MEAN DEG K 279.90 273.28 265.89 265.89 265.75 233.23 232.57 227.32 227.97 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.06 6.32 6.76 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 31 39 23 46 53 37 27 45 41 56 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 9. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1203. 1203. 1204. 1209. 1197. 1194. 1199. 11
## .000 1.000 1.208 2.000 3.000 4.000 4.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 16.000 17.000 18.000 20.000 21.000 23.000 24.000 25.000 25.000 26.000 27.000	• 725720 VAPOR P HEAN MB 10.284 6.378 5.546 3.711 2.517 1.506 .828 +13 .210 .116 .113 .99.999	DUGHA'S.D. VP  MB 3.170 1.755 1.549 1.195 .884 .703 .477 .255 1.36 .071 .99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SALT LAK SKEW VP .43 .43 .51 .43 .51 .150 1.45 .1.50 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	E CITY) TV MEAN DEG K 293.21 285.46 283.39 278.36 270.43 263.20 249.29 231.57 217.77 216.64 217.30 217.30 217.39 216.54 215.64 215.84	TV 5.0. K 9.77 7.495 5.80 5.10 4.91 4.63 3.25 5.27 4.93 3.25 5.28 3.47 2.48 2.48 2.48 2.48 2.74	SKEH TV  .24 .43 .46 .31 .17 -13 -38 -48 -47 -39 -15 .01 .69 -153 -26 .03 -21 -31 -03 .10 .11 -00 .15 .10 .11 .17 .00 .03	DEMPT T MEAN DEG K 279.90 273.28 271.35 265.89 260.34 254.07 246.75 239.23 232.57 227.97 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	DEG K 4.66 3.89 3.93 4.28 4.62 6.76 6.96 5.68 3.76 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 31 39 46 53 37 41 56 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1204. 1204. 1194. 1194. 1194. 1199. 1199. 1170. 11
## .000 1.000 1.200 3.000 4.000 5.000 6.000 7.000 10.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 16.000 17.000 18.000 20.000 21.000 24.000 25.000 25.000	• 725720 VAPOR P HEAN MB 10.264 6.378 5.546 3.711 2.517 1.506 9.929 99.939 99.9	DUGHA'S.D. VP  MB 3.170 1.755 1.549 1.195 .884 .703 .477 .255 .136 .071 .042 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SALT LAK SKEW VP .43 .43 .51 .43 .51 .22 1.50 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	E CITY) TV MEAN DEG K 297: 21 285: 46 283: 34 278: 36 270: 43 263: 27 27: 47 221: 57 227: 47 221: 57 215: 64 215: 13 214: 87 215: 82 216: 57 217: 40 218: 32 219: 74 221: 57 215: 44 215: 82 216: 57 217: 40 218: 32 219: 74 221: 55	TV 5.0. K 9.77 7.95 6.80 5.10 4.91 4.91 4.91 5.25 5.25 5.28 5.25 5.28 5.34 6.39	SKEH TV  .24 .43 .46 .31 .17 -13 -38 -47 -39 -15 .01 .69 .145306 .0302213103 .20 .15 .10 .11 .17 .00	DEMPT T MEAN DEG K 279.90 273.28 265.89 265.89 265.75 233.23 232.57 227.32 227.97 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	DEG K 4.66 3.89 3.93 4.68 4.62 6.06 6.32 6.76 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 31 39 23 46 53 47 41 56 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1178. 1178. 1202. 1177. 1178. 1152. 1107. 1201. 978. 600. 17. 9. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1178. 1178. 1202. 1202. 1202. 1202. 1202. 1202. 1203. 1203. 1203. 1203. 1203. 1204. 1209. 1197. 1194. 1199. 11

TABLE	111, 5		RELATED ST		PARAMETER	5. N	AY				
STATION Z	<ul> <li>725720</li> <li>VAPOR P</li> </ul>	DUGHA S.D. VP	Y (SALT LA) SKEH VP	Œ CITY) TV	τv	SKEH TV	DEHPT T	S.D. DPT	SKEN DPT	NOBS T+P	NOBS TV
4	MEAN	3.D. Yr	SKER YF	HEAN	S.D.	SACH IV	MEAN	3.U. UPI	SKER UP I	NU05 14P	MOD5 14
KM	<b>43</b>	M8		DEG K	DEG K		DEG K	DEG K			
.000	12.333	3.990	.44	298.38	11.50	. 15	282.51	4.98	25	1207.	1207.
1.000	7.956	2.132	.41	290.97	8.55	.24	276.38	3.93	43	1207.	1207.
1.298	6.966 4.670	1. <b>899</b> 1.352	.31 .46	269.02 284.56	7.69 6.08	. <b>2</b> 2 72	274.49 269.01	4.00 3.99	55 39	1241. 1205.	1241. 1241.
2.000 3.000	3.235	1.065	.51	276.62	5.69	37	264.09	4.37	39	1207.	1241.
4.000	2.087	.850	.47	268.84	5.05	52	258.26	5.41	58	1199.	1241
5.000	1.197	.623	.66	261.41	4.54	72	â51.1 <b>6</b>	6.51	- , 444	1171.	1241.
6.000	.594	. 358	1.15	254.22	4.51	75	243.24	6.48	19	1126.	1241.
7.000	.285	.178	1.62	246.88	4.65	די	235.86	5.80	.04	1087.	12.1.
B.000	.141	.081	1.43	239.36	4.54	65	229.40	5.03	.09	924. 249.	1240. 1239.
9.000	.080 99. 999	99.555	1.46 <b>9</b> 95.99	231.76 224.68	4.12 3.35	<b>39</b> 1/	224.47 599.55	4.45 99.99	15. ee. <b>eee</b>	249. 0.	1239.
11 000	99.999	99.999	999.99	219.04	3.61	.54	999.99	99.99	999.99	0.	1236.
12.000	99.999	99.999	<b>99</b> 9 . 99	215.98	4.90	.66	999.99	99.99	999.99	0.	1233.
13.000	99.999	99.999	999.99	215.70	5.38	.00	999.99	99.99	999.99	0.	1232.
14.600	99.999	<b>99</b> .999	999.99	216.17	4.47	41	999.59	99.99	<b>999</b> .99	0.	1225.
15.000	99.999	<b>99</b> .999	939.99	215. <b>8</b> 2	3.70	16	999.99	99.99	<b>99</b> 9.99	0.	1223.
16.000	99.999	99.999	999.99	215.09	3.42	27	999.99	99.99	999.99	0.	1221.
17.000	99.999	99.999	999.99	214.60	2.99	36	999 99	99.99	999.99	0.	1217.
18.000 19.000	99.999 99.999	99.999 99.999	£99.99 <b>9</b> 99.99	214.55 215.08	2.55 2.13	16 S0.	999.99 993.90	99.99 99.99	999.99 993.99	0. 0.	1209. 1202.
20.000	99.593	99.939	999.99	215.86	2.01	.20	999.99	99.99	999.99	0.	1190
21.000	99.999	99.999	999.99	216.99	1.99	. 39	939.99	99.99	999.99	0.	1147.
22.000	99.999	99.999	999.99	218.13	1.94	. 35	999.99	99.99	999.93	٥.	1134
23.000	99.399	99.999	999.99	219.38	1.94	. 39	999.99	99.99	999.99	0.	1115.
24.000	99.999	99.959	999.99	?2 <b>0</b> .77	2.03	. 37	999.99	99.99	999.99	0.	1095.
25.000	99.999	99.999	999.99	222.19	2.10	.31	999.99	99.99	<b>999</b> .99	0.	1094.
26.000	99.979	99.999	999.99	223.66	2.13	.20	999.99	99.99	999.99	0.	1040.
27.000	99.999	99.939	999.99	225.26	2.25	.25	999.99	99.99 99.99	991 99 999.39	0. D.	931. 863.
28.000 29.000	99.99 <b>9</b> 99.9 <b>99</b>	99.999 99.999	999, 99 999, 99	225.95 228.71	2.32 2.41	.32 .45	999.99 999.99	99.99	999.99	0.	767.
30.000	99 999	99.933	999 93	230.55	2.35	.13	399.93	99 99	99).99	0.	éñ:
	111. 6 • 725720 VAPOR P	DUGHAY	RELATED ST ( (SALT LAK SKEU VP	E CITY)			NE NEURT T	c n nor	EVEL POT	NOOC T.D	NOOC TV
				E CITY)	TV	i. J.	DEHPT T	S.D. DPT	SKEW DPT	NOBS T+P	NOBS TV
STATION	• 725720 VAPOR P	DUGHAY	/ (SALT LAK	E CITY)				S.D. DPT DEG K	SKEW DPT	NOBS T+P	NOBS TV
STATION 2 KM .000	* 725720 VAPOR P MEAN MB 14.271	DUGHAY S.D. VP MB 4.560	( (SALT LAK SKEH VP .46	E CITY) TV MEAN DEG K 303.73	TV S.D.	SKEH TV	DEHPT T MEAN		SKEH DPT	NOBS T+P	NOBS TV
STATION 2 KM .000	* 725720 VAPOR P MEAN MB 14.271 9.454	DUGHAY S.D. VP MB 4.560 2.537	Y (SALT LAK SKEH VP .46 .36	E CITY) TV MEAN DEG K 303.73 296.37	TV S.D. DEG K 12.45 9.06	.11 .20	DEHPT T MEAN DEG K 284.71 278.93	DEG K 5.02 4.07	29 57	1147. 1147.	1147. 1147.
KM .000 1.000 1.288	* 725720 VAPOR P MEAN MB 14.271 9.454 8.312	DUGHAY S.D. VP MB 4.560 2.537 2.336	Y (SALT LAK SKEN VP .46 .36 .25	TV MEAN DEG K 303.73 296.37 294.47	TV S.D. DEG K 12.45 9.06 8.31	.11 .20 .20	DEHPT T MEAN DEG K 284.71 278.93 276.93	DEG K 5.02 4.07 4.28	29 57 67	1147. 1147. 1195.	1147. 1147. 1195.
STATION 2 KM .000 1.000 1.288 2.000	• 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555	/ (SALT LAK SKEW VP .46 .36 .25 .54	E CLTY) TV MEAN DEG K 303.73 296.37 294.47 290.34	TV S.D. DEG K 12.45 9.06 8.31 5.77	SKEW TV .11 .20 .20 20	DEHPT T MEAN DEG K 284.71 278.93 276.93 272.40	DEG K 5.02 4.07 4.28 3.61	29 57 67 17	1147. 1147. 1195. 1141.	1147. 1147. 1195. 1195.
STATION 2 KM .000 1.000 1.288 2.000 3.000	* 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212	( (SALT LAK SKEH VP .46 .36 .25 .54	E CITY) TV MEAN DEG K 303.73 296.37 294.47 290.34 282.23	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38	SKEW TV .11 .20 .20 20 30	DEMPT T MEAN DEG K 284.71 278.93 276.93 272.40 267.50	0EG K 5.02 4.07 4.28 3.61 3.90	29 57 67 17	1147. 1147. 1195. 1141. 1147.	1197. 1197. 1195. 1195. 1194.
STATION 2 KM .000 1.000 1.288 2.000	• 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555	/ (SALT LAK SKEW VP .46 .36 .25 .54	E CLTY) TV MEAN DEG K 303.73 296.37 294.47 290.34	TV S.D. DEG K 12.45 9.06 8.31 5.77	SKEW TV .11 .20 .20 20	DEHPT T MEAN DEG K 284.71 278.93 276.93 272.40 267.50 261.90	DEG K 5.02 9.07 9.28 3.61 3.90 5.03	29 57 67 17 24 57	1147. 1147. 1195. 1141. 1147. 1153.	1147. 1147. 1195. 1195. 1194. 1194.
KM .000 1.000 1.288 2.060 3.000 4.000	= 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.765	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035	( (SALT LAK SKEH VP .46 .36 .25 .54 .53 .49	E CITY) TV MEAN DEG K 303.73 296.37 294.47 290.34 282.23 274.28	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69	.11 .20 .20 20 30 36	DEMPT T MEAN DEG K 284.71 278.93 276.93 272.40 267.50	0EG K 5.02 4.07 4.28 3.61 3.90	29 57 67 17	1147. 1147. 1195. 1141. 1147.	1197. 1197. 1195. 1195. 1194.
KM .000 1.000 1.000 1.288 2.000 3.000 4.000 5.000 5.000 7.000	- 725720 VAPOR P MEN MB 14.271 9.454 8.312 5.959 4.162 2.765 1.665 1.665 .409	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279	. 46 . 36 . 25 . 54 . 53 . 49 . 47 1.05	E CITY) TV MEAN DEG K 303.73 296.37 294.47 290.34 282.23 274.28 266.62 259.40 252.30	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.96	.11 .20 .20 .20 .30 .36 .45 .47	DEMPT T MEAN 0EG N 284.71 278.93 276.93 272.40 267.50 261.90 255.28 247.15 239.18	DEG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.89 6.56	29 57 67 17 24 57 62 16	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075.	1197. 1197. 1195. 1195. 1199. 1199. 1199. 1199.
KM .000 1.000 1.288 2.060 3.000 9.000 5.000 6.000 7.000 8.000	- 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.765 1.666 .863 .409 .197	DUGHAY S.O. VP M8 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .130	. 46 . 36 . 25 . 54 . 53 . 49 . 47 1. 05 1. 67 1. 83	E CITY) TV MEAN DEG K 303.73 296.37 294.47 290.34 282.23 274.28 266.62 259.40 252.30 244.84	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.96 3.98 4.00	.11 .20 .20 .20 .30 .36 .45 .47 .47	DEHPT T MEAN DEG K 284.71 278.93 272.49 267.50 261.90 255.28 247.15 239.18 232.12	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.89 6.56 6.11	29 57 67 17 24 57 62 11	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999.	1197. 1197. 1195. 1195. 1194. 1194. 1194. 1194. 1194.
KM .000 1.000 1.288 2.060 3.000 4.000 5.090 6.000 7.000 8.000 9.000	■ 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.765 1.686 .863 .409 .197 .095	DUGHAY S.O. VP M8 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .279 .133	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 . 47 1. 05 1. 67 1. 83 4. 41	E CITY) TV MEAN DEG K 303.73 296.37 294.47 292.34 274.28 266.62 259.40 252.30 244.84 237.08	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.96 4.00 3.93	.11 .20 .20 .20 30 36 45 47 46 41	DEHPT T MEAN DEG K 284.71 278.93 276.93 272.40 261.90 261.90 255.28 247.15 239.18 232.12 225.63	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.89 6.56 6.11	29 57 67 17 24 57 62 16 11	1147, 1147, 1195, 1141, 1147, 1153, 1130, 1075, 1031, 999, 687,	1197, 1197, 1195, 1195, 1194, 1194, 1194, 1194, 1194, 1191, 1191,
STATION 2  KM .000 1.000 1.288 2.060 3.000 9.000 6.000 7.000 9.000 10.009	• 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.765 1.686 .863 .409 .197 .095 .052	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.559 1.212 1.035 1.212 1.035 1.212 1.035 1.213 0.279 1.30 0.65 0.030	. 46 . 36 . 36 . 25 . 54 . 53 . 49 . 47 1. 05 1. 67 1. 83 4. 41 1. 96	E CITY) TV MEAN DEG K 303.73 296.37 294.47 290.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.98 4.00	.11 .20 .20 .20 .30 .36 .45 .47 .46 .41	DEHPT T MEAN OCG K 284.71 278.93 276.93 272.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 220.86	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.89 6.56 6.11 5.39	29 57 67 17 24 57 62 16 11 42 38	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98.	1147. 1147. 1195. 1195. 1194. 1194. 1194. 1194. 1191. 1191.
STATION 2  KM .000 1.000 1.288 2.060 3.000 4.000 5.090 6.000 7.000 8.000 9.000 10.009	- 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.765 1.666 .863 .409 .197 .095 .052 99.999	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 8:4 530 .279 .130 .065 .030 99.999	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 . 47 1. 65 1. 67 1. 83 4. 41 1. 96 999. 99	E CITY) TV MEAN DEG K 303.73 296.37 294.47 292.33 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82	TV S.D. DEG K 12.45 9.06 9.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.27	.11 .20 .20 .30 .36 .45 .47 .46 .41 .36 .26	DEHPT T MEAN 0CG K 284.71 276.93 272.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 200.86 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.89 6.56 6.11 5.39 4.43	29 57 67 17 24 57 62 16 11 42 38 49	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0.	1197, 1197, 1195, 1195, 1194, 1194, 1194, 1194, 1191, 1191, 1191, 1191, 1183,
STATION 2  KM .000 1.000 1.288 2.060 3.000 9.000 6.000 7.000 9.000 10.009	• 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.765 1.686 .863 .409 .197 .095 .052	DUGHAY S.O. VP M8 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .130 .065 .030 .99.999	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 . 47 1.05 1.67 1.83 4.41 1.96 999.99	E CITY) TV MEAN DEG K 303.73 296.37 294.47 290.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82 218.30	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.59 3.27	.11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .18 .26 .49	DEHPT T MEAN OCG K 284.71 278.93 276.93 272.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 220.86	0EG K 5.02 4.07 4.28 3.61 3.90 6.93 6.56 6.11 5.39 4.43 99.99	29 57 67 17 62 16 11 42 38 49 999.99	1147, 1147, 1195, 1141, 1147, 1153, 1130, 1075, 1031, 999, 687, 98, 0,	1197. 1197. 1195. 1195. 1194. 1194. 1194. 1196. 1191. 1191. 1191. 1183. 1187.
STATION 2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000	- 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.766 1.666409197095095 99.999 99.999	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 8:4 530 .279 .130 .065 .030 99.999	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 . 47 1. 65 1. 67 1. 83 4. 41 1. 96 999. 99	E CITY) TV MEAN DEG K 303.73 296.37 294.47 292.33 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82	TV S.D. DEG K 12.45 9.06 9.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.27	.11 .20 .20 .30 .36 .45 .47 .46 .41 .36 .26	DELPT T HEAN OEG K 284.71 278.93 276.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 220.66 939.99	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.89 6.56 6.11 5.39 4.43	29 57 67 17 24 57 62 16 11 42 38 49	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0.	1197, 1197, 1195, 1195, 1194, 1194, 1194, 1194, 1191, 1191, 1191, 1191, 1183,
KM .000 1.000 1.000 1.288 2.060 3.000 4.000 5.000 5.000 7.000 8.000 9.000 11.000 12.000 13.000 14.000 15.000	- 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.766 1.666 1.666 1.693 1.97 0.95 0.052 99.999 99.999 99.999 99.999	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .133 .065 .030 99.999 99.999 99.999	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 . 47 1. 05 1. 67 1. 83 4. 41 1. 96 999. 99 999. 99 999. 99	E CITY) TV MEAN DEG K 303.73 296.37 294.47 292.33 274.28 266.62 259.40 252.30 244.84 237.08 229.42 2218.30 216.41 215.36 213.95	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.27 3.87 4.49 4.18 4.02	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01	DEHPT T HEAN 0EG K 284.71 278.93 276.93 272.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 220.36 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 5.03 6.44 6.56 6.11 5.39 4.43 99.99 99.99	29 57 67 17 57 62 16 11 42 38 49 999.99 999.99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0.	1197, 1197, 1195, 1195, 1194, 1194, 1194, 1192, 1191, 1191, 1187, 1186, 1186, 1185,
KM .000 1.000 1.288 2.060 3.000 4.000 5.090 6.000 9.000 9.000 11.000 12.000 13.000 14.000 15.000 15.000 16.000 16.000	- 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.765 1.666409197095052 99.999 99.999 99.999 99.999	DUGHAY S.O. VP M8 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .133 .065 .030 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 294.47 292.33 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82 218.30 216.41 215.30 216.41 215.30 216.41	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.59 4.49 4.18 4.49 4.18 4.18	.11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .49 .01 .19 .20 .30 .36 .35 .35 .35 .35 .35 .35 .35 .35 .35 .35	DELPT T HEAN DEG K 284.71 278.93 272.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 220.86 399.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 6.44 6.89 6.56 6.11 5.39 4.43 99.99 99.99	29 57 67 17 24 57 62 16 11 42 38 49 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0.	1197. 1197. 1195. 1195. 1194. 1194. 1194. 1196. 1191. 1191. 1187. 1186. 1186. 1186. 1186.
KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 9.000 10.009 11.000 12.000 13.000 14.000 15.000 15.000 17.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  .863  .409  .197  .052  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.O. VP M8 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .130 .065 .030 99.999 99.999 99.999	. 46 . 36 . 36 . 59 . 59 . 59 . 49 1 . 05 1 . 67 1 . 83 4 . 41 1 . 96 999 . 99 999 . 99 999 . 99 999 . 99 999 . 99	E CITY) TV MEAN DEG K 303.73 296.37 294.47 290.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82 216.41 215.36 213.95 213.95 212.54	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.27 4.49 4.18 4.02 3.87	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .30	DEHPT T MEAN OEG K 284.71 278.93 276.93 272.40 267 50 261.90 255.28 247.15 239.18 232.12 225.63 220.86 939.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.56 6.11 5.39 4.43 99.99 99.99 99.99	29 57 67 17 24 57 62 16 11 42 38 49 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0.	1197, 1197, 1195, 1195, 1194, 1194, 1194, 1191, 1191, 1191, 1187, 1186, 1186, 1186, 1179, 1176,
STATION 2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 15.000 17.000 18.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.765  1.666  .863  .409  .197  .052  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.O. VP MB 4.560 2.537 2.336 1.559 1.212 1.035 8.14 .530 .279 .130 .065 .030 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 299.47 290.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 224.82 218.30 215.36 213.95 216.41 215.36 213.95 216.83 218.54 213.27	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.59 3.59 3.27 4.18 4.02 3.87 4.18 4.02	SKEH TV  .11 .20 .20 .30 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .32 .339	DEHPT T MEAN OCG K 284.71 278.93 276.93 272.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 220.86 939.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.39 6.56 6.11 5.39 4.43 99.99 99.99 99.99	29 57 67 17 57 62 16 11 42 38 49 999.99 999.99 999.99 999.99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0.	1197. 1197. 1195. 1195. 1194. 1194. 1194. 1190. 1191. 1191. 1191. 1187. 1186. 1180. 1170.
STATION 2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000	- 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.766 1.666	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .133 .065 .030 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 299.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 229.42 2218.30 216.41 215.36 213.95 212.83 212.83 212.54 213.27 214.83	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.27 3.87 4.49 4.18 4.02 3.87 3.87 2.87	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .32 .39 .08	DEHPT T	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.56 6.11 5.39 4.43 99.99 99.99 99.99 99.99	29 57 67 17 54 57 62 16 11 42 38 49 999. 99 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0.	1197, 1197, 1195, 1194, 1194, 1194, 1194, 1192, 1191, 1191, 1183, 1187, 1186, 1185, 1179, 1176, 1176, 1176,
KM .000 1.000 1.000 1.000 5.000 5.000 9.000 9.000 11.000 12.000 15.000 15.000 15.000 16.000 17.000 16.000 17.000 16.000 19.000 19.000 20.000 20.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.765  1.666  .863  .409  .197  .095  .052  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP M8 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .133 .065 .030 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 294.47 292.33 274.28 266.62 259.40 252.30 244.84 237.08 222.82 218.30 216.41 215.36 213.95 212.83 212.54 213.27 214.83 216.34	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.27 3.87 4.49 4.02 3.87 4.18 4.02 3.87	SKEH TV  .11 .20 .20 .20 .30 .36 .35 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .32 .39 .08	DELPT T HEAN OEG K 284.71 278.93 276.90 267.50 261.90 255.28 247.15 232.18 232.12 225.63 220.86 999.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 6.93 6.56 6.11 5.39 4.43 99.99 99.99 99.99 99.99	29 57 67 17 57 62 16 11 42 38 49 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0.	1197. 1197. 1195. 1195. 1194. 1194. 1194. 1196. 1191. 1191. 1187. 1186. 1186. 1179. 1176. 1176. 1176.
STATION 2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000	- 725720 VAPOR P MEAN MB 14.271 9.454 8.312 5.959 4.162 2.766 1.666	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .133 .065 .030 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 299.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 229.42 2218.30 216.41 215.36 213.95 212.83 212.83 212.54 213.27 214.83	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.93 3.59 3.27 3.87 4.49 4.18 4.02 3.87 3.87 2.87	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .32 .39 .08	DEHPT T	0EG K 5.02 4.07 4.28 3.61 3.90 5.03 6.44 6.56 6.11 5.39 4.43 99.99 99.99 99.99 99.99	29 57 67 17 54 57 62 16 11 42 38 49 999. 99 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0.	1197, 1197, 1195, 1194, 1194, 1194, 1194, 1192, 1191, 1191, 1183, 1187, 1186, 1185, 1179, 1176, 1176, 1176,
STATION  2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 22.000 23.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  .463  .409  .197  .095  .095  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAN S.O. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .130 .065 .030 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 299.47 290.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 224.89 218.30 246.41 215.36 213.95 212.83 218.37 214.83 216.41 215.38	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.99 4.10 4.10 4.10 4.10 3.87 4.10 4.10 4.10 4.10 4.10 4.10 4.10 4.10	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .32 .39 .08 .01 .12	DEHPT T MEAN OEG K 284.71 278.93 276.93 272.40 267 50 261.90 255.28 247.15 239.18 232.12 225.63 220.86 939.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 6.44 6.56 6.11 5.39 4.43 99.99 99.99 99.99 99.99	29 57 67 17 24 57 62 16 11 42 38 49 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0.	1197, 1197, 1195, 1195, 1194, 1194, 1194, 1194, 1191, 1191, 1191, 1187, 1186, 1186, 1179, 1176, 1176, 1171, 1176, 1176, 1176, 1176, 1176,
STATION  2  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 22.000 23.000 24.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  .863  .409  197  .095  .052  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.O. VP  M8  4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .133 .065 .030 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 . 47 1 . 05 1 . 67 1 . 83 4 . 41 1 . 96 999 . 99 999 . 99	E CITY) TV MEAN DEG K 303.73 296.37 299.47 299.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82 223.42 223.42 223.82 216.41 215.36 213.95 213.83 212.54 213.87 214.83 219.36 213.87 214.83 219.36 213.87	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.05 3.98 4.05 3.98 4.00 3.93 3.59 4.18 4.02 3.87 4.49 4.18 4.02 3.87 4.19 4.10 3.87 4.10	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .26 .26 .20 .39 .01 .19 .20 .32 .39 .08 .01 .12 .13 .01	DEHPT T MEAN OEG K 284.71 278.93 276.93 272.40 267 50 261.90 255.28 247.15 239.18 235.63 220.86 939.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 6.44 6.56 6.51 5.39 4.43 99.99 99.99 99.99 99.99 99.99 99.99 99.99	29 57 67 17 57 62 16 11 42 38 49 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1197. 1197. 1195. 1195. 1194. 1194. 1194. 1194. 1196. 1191. 1191. 1186. 1187. 1186. 1176. 1176. 1176. 1176. 1176. 1176. 1176. 1176. 1176. 1176. 1176. 1176. 1176. 1177. 1163.
STATION  2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 9.000 10.009 11.000 12.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 22.000 23.000 24.000 25.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  .863  .409  .197  .095  .052  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAN S.O. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .130 .065 .030 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 1 . 05 1 . 67 1 . 83 4 . 41 1 . 96 999 . 99 999 . 99	E CITY) TV MEAN DEG K 303.73 296.37 299.47 290.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 224.80 216.30 244.84 217.83 218.30 214.83 218.30 214.84 215.36 213.95 212.83 216.34 217.83 219.36 220.91 222.50 224.10	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.05 3.98 4.00 3.59 3.27 4.18 4.02 3.87 4.18 4.02 3.87 4.18 4.02 3.87 4.18 4.05	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .36 .49 .01 .19 .20 .32 .339 .08 .01 .12 .13 .01 .04 .03	DEHPT T MEAN OCG K 284.71 278.93 276.93 272.40 267 50 261.90 255.28 247.15 239.18 232.12 225.63 220.86 939.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 6.44 6.56 6.51 5.39 4.43 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	29 57 67 17 24 57 62 16 11 42 38 49 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0. 0. 0.	1197, 1197, 1195, 1195, 1194, 1194, 1194, 1194, 1191, 1191, 1191, 1187, 1186, 1186, 1179, 1176, 1176, 1176, 1176, 1177, 1166, 1179, 1176, 1177, 1166, 1179, 1179, 1176, 1177, 1176, 1177,
STATION  2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 8.000 10.009 11.000 12.000 13.000 14.000 15.000 15.000 15.000 15.000 15.000 15.000 20.000 21.000 23.000 24.000 25.000 26.000 26.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  1.666  1.67  0.95  0.952  99.999	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.559 1.212 1.035 2.14 .530 .279 .130 .065 .030 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 299.47 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82 218.30 245.43 215.36 213.95 216.41 215.36 213.95 216.34 217.83 216.34 217.83 216.34 217.83 219.36 220.91 225.75	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.00 3.98 4.00 3.59 3.59 4.18 4.02 3.87 4.18 4.02 3.87 1.74 1.55 2.01 1.77 1.57 1.38 1.48 1.48 1.59	SKEH TV  .11 .20 .20 .30 .36 .45 .47 .46 .41 .36 .36 .39 .01 .19 .20 .32 .39 .08 .01 .12 .13 .01 .04 .03	DEHPT T  MEAN OCG K 284.71 278.93 276.93 272.40 267.50 261.90 255.28 247.15 239.18 232.12 225.63 220.86 939.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 5.03 6.44 6.56 6.11 5.39 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	29 57 67 17 57 62 16 11 42 38 49 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1197, 1197, 1195, 1194, 1194, 1194, 1194, 1194, 1191, 1191, 1191, 1183, 1187, 1186, 1176, 1176, 1176, 1176, 1176, 1177, 1163, 1176, 1177, 1163, 1177, 1163, 1177, 1163, 1177, 1163, 1177, 1163, 1177,
STATION  2  KM .000 1.000 1.208 2.060 3.000 4.000 5.000 6.000 7.000 8.000 11.000 11.000 11.000 11.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 20.000 21.000 21.000 22.000 23.000 24.000 25.000 26.000 27.900	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  1.666  1.666  2.95  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .030 .279 .133 .065 .030 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 299.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 229.42 2218.30 244.84 237.08 2218.30 244.84 237.08 2218.30 246.41 215.36 213.95 212.83 216.34 217.36 218.30 216.34 217.36 218.30 216.34 217.36 218.30 218.3	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.00 3.98 4.00 3.93 3.59 4.18 4.02 3.87 4.18 4.02 3.87 1.74 1.55 2.01 1.74 1.55 1.38 1.48 1.48 1.59	SKEH TV  .11 .20 .20 .30 .36 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .32 .39 .08 .01 .12 .13 .01 .04 .03	DELPT T	0EG K 5.02 4.07 4.28 3.61 5.39 6.56 6.11 5.39 4.43 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	29 57 67 17 54 57 62 16 11 42 38 49 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1197. 1197. 1195. 1194. 1194. 1194. 1194. 1197. 1196. 1197. 1183. 1187. 1186. 1186. 1179. 1176. 1177. 1163. 1176. 1177. 1163. 1176. 1177. 1163. 1176. 1177. 1163. 1178. 1179. 1176. 1177. 1163.
STATION  2  KM .000 1.000 1.288 2.060 3.000 4.000 5.000 6.000 7.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 21.000 22.000 23.000 24.000 25.000 25.000 26.000 27.900 28.000	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  .863  .409  .197  .052  99.999	DUGHAY S.O. VP  M8  4.560 2.537 2.336 1.555 1.212 1.035 .814 .530 .279 .130 .055 .030 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP . 46 . 36 . 25 . 54 . 53 . 49 . 105 1 . 67 1 . 83 4 . 41 1 . 96 999 . 99 999 . 99	E CITY) TV MEAN DEG K 303.73 296.37 299.47 299.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 223.42 222.82 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 213.95 216.41 215.36 216.41 215.36 216.41 215.36 216.41 215.36 216.41 215.36 216.41 2	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.05 3.98 4.00 3.93 3.59 3.27 4.49 4.18 4.02 3.87 4.49 4.18 4.02 3.41 2.55 2.15 2.15 1.59 1.59	SKEH TV  .11 .20 .20 .20 .30 .36 .45 .47 .46 .41 .26 .18 .26 .49 .01 .19 .20 .39 .01 .19 .20 .31 .01 .01 .01 .01 .01 .01 .01 .01 .01 .0	DEHPT T MEAN OEG K 284.71 278.93 276.93 276.90 267.50 261.90 255.28 247.15 239.18 232.12 255.63 220.86 939.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.02 4.07 4.28 3.61 3.90 6.44 6.89 6.56 6.51 5.39 4.43 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	29 57 67 17 54 57 62 16 11 42 38 49 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1197. 1197. 1195. 1194. 1194. 1194. 1194. 1194. 1197. 1191. 1191. 1191. 1187. 1186. 1189. 1179. 1176.
STATION  2  KM .000 1.000 1.208 2.060 3.000 4.000 5.000 6.000 7.000 8.000 11.000 11.000 11.000 11.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 20.000 21.000 21.000 22.000 23.000 24.000 25.000 26.000 27.900	• 725720  VAPOR P  MEAN  MB  14.271  9.454  8.312  5.959  4.162  2.766  1.666  1.666  1.666  2.95  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.560 2.537 2.336 1.555 1.212 1.035 .030 .279 .133 .065 .030 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	( (SALT LAK SKEH VP	E CITY) TV MEAN DEG K 303.73 296.37 299.34 282.23 274.28 266.62 259.40 252.30 244.84 237.08 229.42 2218.30 244.84 237.08 2218.30 244.84 237.08 2218.30 246.41 215.36 213.95 212.83 216.34 217.36 218.30 216.34 217.36 218.30 216.34 217.36 218.30 218.3	TV S.D. DEG K 12.45 9.06 8.31 5.77 5.38 4.69 4.00 3.98 4.00 3.93 3.59 4.18 4.02 3.87 4.18 4.02 3.87 1.74 1.55 2.01 1.74 1.55 1.38 1.48 1.48 1.59	SKEH TV  .11 .20 .20 .30 .36 .36 .45 .47 .46 .41 .36 .18 .26 .49 .01 .19 .20 .32 .39 .08 .01 .12 .13 .01 .04 .03	DELPT T	0EG K 5.02 4.07 4.28 3.61 5.39 6.56 6.11 5.39 4.43 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	29 57 67 17 54 57 62 16 11 42 38 49 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1147. 1147. 1195. 1141. 1147. 1153. 1130. 1075. 1031. 999. 687. 98. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1197. 1197. 1195. 1194. 1194. 1194. 1194. 1197. 1196. 1197. 1183. 1187. 1186. 1186. 1179. 1176. 1177. 1163. 1176. 1177. 1163. 1176. 1177. 1163. 1176. 1177. 1163. 1178. 1179. 1176. 1177. 1163.

	111. 7				PARAMETERS	. Ј	ULY				
	= 725720 VAPOR P		I ISALT LAK		TV	C.C	05:01.1				
Z	MEAN	S.D. VP	SKEH VP	TV	5.D.	SKEH TV		S.D. DPT	SKEH OPT	NOBS 1+P	NOBS TV
кн	MB	MB		MEAN DEG K	DEG K		MEAN DEG K	DEG K			
.000	16.040	5.593	.48	309.57	12.77	14	286.35	5.57	20		
1.000	10.863	3.356	-	302.28	8.71	10	280.69	5.5/ 4.78	28	1162.	1162.
1.288	9.530	3.104	.42	302.28	7.70				52	1162.	1162.
2.000	7.195	2.052	. 37 78	296.24	7.70 3.41	08 56	27 <b>8</b> .70 274.92	<b>5</b> .02 <b>3</b> .92	57	1243.	1243.
3.000	5.045	1.677	. 72	288.04	2.79	69	269.91	3.92 4.45	.08 05	1139.	1243.
4.000	3.580	1.357	.63	279.55	2.33	56	265.20	4.99	÷.17	1162.	1243
5.000	2.412	1.041		279.55	2.12	55 45	259.91	<b>5</b> .75	17	1188	1243.
5.000 6.00u	1.330	.758	. 44 . 59	263.67	2.31	32				1174.	1243.
7.000	.626				2.51		252.06	7.12	21	1100.	1243.
8.000	.310	.442 .227	1.29	256.92 249.83	2.67	36	243.39	7.00	. 31	1030.	1242
			1.46			29	236.,4	6.71	.21	974.	1241.
9.000	. 145	.105	1.60	242.43	2.83	31	229.04	6.23	01	937.	1241.
10.000	.072	.058	:.3€	234.56	2.52	75	323.01	3.67	143	U. 1. 3	1240
11.000	.047	.028	.89	227.77	2.72	25	219.43	6.30	-1.08	10.	1237
12.000	99.999	99.999	<b>99</b> 9.99	221.49	2.40	31	999.99	39.99	999.99	٥.	1235.
13.000	99.999	99.939	999.99	216.45	2.47	. 15	999.99	99.99	999.99	0.	1233.
14.000	99.999	99.999	999.99	212.20	2.90	.62	999. <b>99</b>	99.99	999.99	0.	1229.
15.000	99.999	99.999	999.99	209.00	3.29	.58	999.99	99.99	999.93	0.	1220
16.000	99.999	99.999	999.99	207.93	3.11	.25	939. <b>99</b>	99.99	<b>99</b> 9.99	0.	1220.
17.000	99.999	99.999	999.99	209.16	2.52	. 1 1	999.99	<b>99</b> .99	999.99	٥.	1213.
18.000	99.999	99.999	999.99	211.51	2.13	.12	999. <b>99</b>	99.99	999.99	0.	1218.
19.000	99.999	<b>99</b> .999	999.99	214.16	1.82	.09	999.99	99.99	999.99	0.	1209.
20.000	93.999	99.999	999.99	216.25	1.59	09	<b>9</b> 99.99	99.99	999.99	0.	1198
21.000	99.999	99.999	999.99	218. <i>2</i> 5	1.45	12	999. <b>9</b> 9	99.99	999.99	0.	118G.
ee.000	99.999	<b>9</b> 9.999	99.99	219.91	1.31	07	999. <b>99</b>	99.99	999.99	٥.	1129.
23.000	93.939	99.999	999.99	221.54	1.34	17	999.39	99.99	999.99	9.	1111.
ē4.000	99.9∌3	99.999	999.99	223.11	1.34	10	999.99	99.9 <b>9</b>	999.99	ο.	1691.
<i>6</i> 5.80 <b>0</b>	<b>9</b> 9.999	99.999	999.99	224.63	1.36	.01	999.99	99.99	999.99	0.	1112.
<i>?</i> 6.000	<b>93</b> .999	99.999	999.9 <del>9</del>	226.23	1.41	03	999.93	93. <b>99</b>	<del>99</del> 9.99	0.	1650.
27.000	<b>99</b> .999	99 333	999.99	227.92	1.61	.00	999.99	99.99	999.99	0.	99:
28.600	99.999	99.999	999.99	229.4 <b>6</b>	1.64	08	999.99	99.39	999.39	0.	859.
29.000	69 639	99.993	999.99	231.01	1.84	08	999.99	99.33	939 . <b>99</b>	0.	7E0.
30 000	93,369	99 999	999.99	∂32, <b>68</b>	1.96	11	999.93	99 99	<del>9</del> 99, 99	0.	€+5

TABLE	111.8	MOISTURE	RELATED ST	AYISTICAL	PAPAMETERS.	, At	JGUST				
STATION	<ul><li>725720</li></ul>	DUGHAY	ISALT LAK	E CITY)							
Z	VAPOR P	S.D. VP	SKEH VP	TV	TV	SKEH TV	DEHPT T	S.D. DPT	SKEH DPT	NOBS T+P	NOBS TV
	MEAN			MEAN	S.D.		MEAN				
KM	MB	MB		DEG K	DEG K		DEG K	DLG K			
. 000	16.177	6.026	. <b>5</b> 5	308.03	12.61	11	286.36	5.96	26	1192.	1192
1.000	10.937	3.627	.48	300 74	8.75	08	280.70	5.04	30	1192.	1192.
1 . 298	9.699	3.277	.47	<i>2</i> 98.65	7.79	08	278.92	5.10	35	1238.	1236.
2.000	7.236	2.244	.68	294 84	4.24	88	274.93	4.29	. 06	1190.	1238.
3.000	5.159	1.802	. 55	286.65	3.75	-1.12	270.13	4.76	07	1192.	1238
4.000	3.629	1.392	.41	278.33	3.18	-1.09	265.31	5.25	36	1191.	1239
5.000	2.356	1.074	. +2	<b>2</b> 70. <b>30</b>	2.67	79	259.47	6.14	- , 41	1171.	1230.
6.000	11ء ا	. 769	عح.	263.12	2.62	55	251.37	7.37	12	1698.	ac Mr.
7.000	.600	.431	1.37	256.46	2.81	41	242.84	7.16	. 25	1026.	: 2 : 17
8.000	. 293	.210	1.53	249.35	2.96	34	235.66	6.54	.51	983.	12 C.
9.000	. 142	.099	1.65	241.88	3.12	17	228.95	6.00	. 05	950.	1235
10.000	.069	.045	1.39	234.32	3.22	- 16	222.78	5.51	23	393.	1234
11.000	. 04 3	.020	.43	227.19	3.06	19	219.47	4.10	36	12.	12.70
12.000	<b>99</b> .999	99.999	<b>999</b> .99	221.15	2.72	25	999. <b>99</b>	99.99	<b>999</b> .99	٥.	: 23°0.
13.000	99.999	99.999	999.99	216.50	2.35	. 37	99 <b>9.99</b>	99.99	<b>9</b> 99.99	0.	12(A.
14.000	<b>99</b> .999	99.999	<b>999</b> .99	212.57	2.8;	.51	999.90	99.99	<b>999.9</b> 9	<b>C</b> .	12.2
15.000	99.999	99.999	999.99	209.62	3.43	.47	999. <b>99</b>	99 . 99	<b>999</b> .99	0.	122⊶.
16.000	<b>99</b> .999	99.999	999.99	208.35	3.52	.27	999.99	99.99	999.99	0.	1217.
17.000	<b>99</b> .999	<b>99</b> .999	999.99	209.51	2.90	. 35	999.99	93.99	999.99	0.	1208
18.000	99.939	99.999	999.99	211.60	2.34	. 29	99 <b>9.59</b>	99.99	943 99	0.	1100.
19 000	99.999	99.999	999.99	214.16	2.00	. 33	999.99	99.99	999.99	0.	1168
20.000	99.999	99.999	995.99	216.1 <b>8</b>	1.72	.17	999.9 <b>9</b>	99.99	999 99	٥.	1179.
21.000	99.999	99.999	999.99	218.05	1.50	.10	993. <b>99</b>	99.99	999.93	0	1163
22.000	99.999	99.999	939.99	219. <b>59</b>	1 , 444	10	393. <b>99</b>	39.9 <b>9</b>	999 99	0.	111"
23.000	<b>99</b> .99 <b>9</b>	99.999	999.99	221.06	1.47	01	93 <b>9. 39</b>	99 99	999. <b>9</b> 9	0.	1103.
24.000	99.999	99.999	999.99	222.50	1.47	05	999. <b>99</b>	99.99	999. <b>99</b>	0	1085
25.000	99 999	99.999	99.99	22 <b>3.98</b>	1.49	03	999. <b>99</b>	99.99	999 99	0.	1057
26.00 <b>0</b>	99 999	99.999	999.99	225.44	1.54	.07	999. <b>99</b>	99.99	993 <b>99</b>	0.	: (, 4 )
27.00¢	કહે તેવસ	99.599	995.99	2c`6 . <b>96</b>	1.70	01	939.99	ود. وي	ور و و	Ĉ.	
28.000	99.999	99.999	999.99	220. <b>20</b>	1.78	18	999.9 <del>9</del>	<b>9</b> 9.99	999.39	Ο.	9. 6
29.000	99.993	<b>9</b> 9 999	999.99	229. <b>68</b>	1.92	26	999. <b>99</b>	99-99	920 99	0.	787.
30 <b>000</b>	99 199	39 533	999.99	231.11	1.93	~ . 05	999 99	93 99	લેવલ હત	О.	6*∂

TABLE	111. 9		RELATED ST		PARAMETERS	i, s	EPTEMBER				
2	• 725720 VAPOR P	S.D. VP	y (salt lak skeh vp	TV	TV	SKEH TV	DEHPT T	5. ). DPT	SKEH DPT	NOBS T+P	MOBS TV
174	MEAN			MEAN	S.D.		MEAN				
К <del>Н</del> . 000	MB 13.426	MB 5.130	.68	DEG K 301.82	DEG K 12.71	10	DEG K 283.52	DEG K 5.84	12	1141.	1141.
1.000	9.052	2.990	.74	294.94	9 15	03	278.00	4.75	09	1141.	1141.
1.289	7.993	2.688	. 69	292.96	8.31	03	276.20	4 82	18	1199.	1200.
2.000	5.828	2.050	.95	269.48	5.62	66	271.78	4.78	09	1147.	1200
3.000 4.000	4.096 2.748	1.594	.62	281.68	5.17	90	266.87	5.31	32	1143.	1200.
5.000	1.637	1. <i>2</i> 66 919	. 64 . 82	273.99 266.83	4.40 3.89	-1.07 -1.10	261. <b>38</b> 254.60	6.22 6.97	46 +.21	1124. 1079.	1200. 1200.
6.000	.823	.547	1.42	260.09	3.86	-1.11	246.49	6.99	.09	1008.	1200.
7.000	.400	.280	1.89	253.14	3.79	-1.06	238.96	6.42	. 17	970.	1200.
8.000	.200	.141	1.98	245.75	3.66	92	232.17	6.05	. 10	922.	1200.
9.000	.099	.067	1.86	238. 2	3.40	54	225.74	5.60	07	746.	1260.
(0.000 11.000	.0 <b>+9</b> <b>99</b> .999	280. 99.999	: CZ <b>99</b> 9.99	230.05 224.26	3 15 3.16	.03	999.93	ნ.∜5 თ. თ	.83 <b>999</b> .99	106	1199,
12.000	99.999	99.999	999.99	219.72	3.46	.09	999.99	99.99 99.99	999.99	1. O.	1195. 1193.
13.000	99.993	99.999	999.99	216.62	3.33	.05	999.99	99.99	999.99	0.	1190.
14.000	<b>9</b> 9.999	99.999	999.99	213.77	3.33	.41	999.99	99.99	<b>9</b> 93.99	0.	1188.
15.000	99.999	99.999	999.99	211.41	3.58	. 41	999.99	99.99	999.93	0.	110+
16.000	99.999	99.999	999.99	210.15	3.62	. 32	999.99	99.99	999.99	0.	1179.
17.000 18.000	<b>99</b> .999 <b>9</b> 9.999	99.999 99.999	999.99 999.99	210.40 211.49	3.26 2.89	. 34 . 38	999.90 999.99	99.99 99.39	999.99 999.99	0. 0.	1172. 1167.
19.300	99.999	99.939	999.99	213.23	2.54	.29	999.99	99.99	999.99	0.	1159.
20.000	99.999	99.999	999.99	214.92	2.49	.11	999.99	99.99	999.99	Ö.	1148.
21.000	<b>99</b> .999	<b>99</b> .999	999.99	216.48	2.39	.07	999.99	<b>9</b> 9. 99	999.99	0.	1112.
22.000	93.999	99.999	999.99	217.92	2.29	.03	999.93	99.99	939.99	0.	1094
23.000 24.000	99.999 99.999	99.993 99.999	999.99 999.99	219.4 <b>9</b> 221.0 <b>3</b>	2.20 2.07	.06 .00	999.39 999.99	99.99	993.93	0.	1070.
£5.000	99.999	99.999	999.99	222.44	1.94	.04	999.99	99.99 99.99	999.99 999.99	0. 0.	1057. 1066.
25.000	99.999	99.999	999.59	223.84	1.95	.05	999.99	99.99	999.99	0.	1022.
<i>27.</i> 000	99.999	99.999	999.99	225. <b>21</b>	2.03	.07	999.99	99.99	999.99	٥.	941.
28.000	99.999	99.999	993.99	226.38	2.05	02	999.99	99.99	999.39	0.	867.
29.000 30.000	99.999 99.999	99.999 99.999	999.99 993.99	227. <b>61</b> 238. <b>79</b>	2.26 2.53	.09 .04	999.99 999.99	99 99 99 99	999.99	0. 0.	771 . 694 .
30.000	<b>3</b> 3.333	33.333	393.33	20.73	2.63	.04	9:33.55	39.33	993 99	0.	014.
TABLE	111. 10	MOISTURE	RELATED STA	ATISTICAL	PARAMETERS	, oc	TOBER				
TABLE STATION	111. 10 = 725720		RELATED STA								
	- 725720 YAPOR P			TV TV	TV	, oc skeh tv	DEWPT T	S.D. DPT	SKEH OPT	NOBS T+P	NOBS TV
STATION	= 725720 VAPOR P MEAN	DUGHAY S.D. VP	' (SALT LAKE	TV MEAN	TV 5.0.		DEUPT T MEAN		SKEH OPT	NOBS T+P	NOBS TV
STATION Z KM	= 725720 VAPOR P MEAN MB	DUGHAY S.D. VP MB	' (SALT LAKE SKEH VP	TV MEAN DEG K	TV S.Ö. DEG K	skeh tv	DEMPT T MEAN DEG K	DEG K			
STATION Z KM .000	= 725720 VAPOR P MEAN MB 10.500	DUGHAY S.D. VP MB 4.080	' (SALT LAKE SKEH VP .47	E CLTY) TV MEAN DEG K 293.66	TV 5.0.		DEUPT T MEAN		SKEH 0PT 32 19	NOBS T+P	NOBS TV 1168. 1158.
STATION Z KM	= 725720 VAPOR P MEAN MB	DUGHAY S.D. VP MB	' (SALT LAKE SKEH VP	TV MEAN DEG K	TV S.D. DEG K 11.94	SKEW TV	DEMPT T MEAN DEG K 279.81	DEG K 5.98	<b>3</b> 2 19 25	1168.	1168 1168 1241
STATION Z  KM .000 1.000 1.288 2.000	= 725720 VAPOR P MEAN MB 10.500 7.185 6.407 4.456	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447	' (SALT LAKE SKEW VP .47 .61 .55 58	E CLTY) TV MEAN DEG K 293.66 287.75 286.11 283.394	TV S.D. DEG K 11.94 8.68 7.94 6.09	02 .14 .16 44	DEMPT T MEAN DEG K 279.81 274.86 273.30 268.27	DEG K 5.98 4.22 4.04 4.41	<b>3</b> 2 19 25 27	1168. 1168. 1241. 1204.	1168. 1168. 1241.
KM .000 1.000 1.288 2.000 3.000	= 725720 VAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447 1.204	' (SALT LAKE SKEW VP .47 .61 .55 .58 .62	E CLTY) TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40	TV S.O. DEG K 11.94 8.68 7.94 6.09 5.77	02 .14 .16 44 64	DEMPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24	DEG K 5.98 4.22 4.04 4.41 5.14	<b>3</b> 2 19 25 27 29	1168. 1168. 1241. 1204. 1168.	1168. 1168. 1241. 1241. 1241.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000	= 725720 YAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994	DUGHAY 5.D. VP MB 4.080 2.143 1.844 1.447 1.204 .968	' (SALT LAKE SKEW VP .47 .61 .55 58 .62 .64	E CLTY) TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92	TV S.O. DEG K 11.94 8.68 7.94 6.09 5.77 5.23	02 14 .16 44 64 85	DEMPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31	DEG K 5.98 4.22 4.04 4.41 5.14 6.41	32 19 25 27 29 52	1168. 1168. 1241. 1204. 1168.	1168. 1168. 1241. 1241. 1241. 1241.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000	- 725720 YAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994 1.145	DUGHAY 5.D. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657	' (SALT LAKE SKEW VP .47 .61 .55 .58 .62 .64	CITY) TV MEAN DEG K 293.66 297.75 296.11 283.34 276.40 269.92 263.57	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08	02 .14 .16 44 64 85	DEMPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44	DEG K 5.98 4.22 4.04 4.41 5.14 6.41 6.84	32 19 25 27 29 52 28	1168. 1168. 1241. 1204. 1168. 1126.	1168. 1168. 1241. 1241. 1241. 1241.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000	= 725720 YAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994	DUGHAY 5.D. VP MB 4.080 2.143 1.844 1.447 1.204 .968	' (SALT LAKE SKEW VP .47 .61 .55 58 .62 .64	E CLTY) TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92	TV S.O. DEG K 11.94 8.68 7.94 6.09 5.77 5.23	02 14 .16 44 64 85	DEMPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09	DEG K 5.98 4.22 4.04 4.41 5.14 6.41	32 19 25 27 29 52 30 26	1168. 1168. 1241. 1204. 1168. 1126. 1083. 1027.	1168. 1158. 1241. 1241. 1241. 1241. 1241.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000	- 725720 VAPOR P MEAN H9 10.500 7.185 6.407 4.456 3.086 1.994 1.145	DUCHAY 5.0. VP MB 4.080 2.143 1.844 1.447 1.204 .657	' ISALT LAKE SKEW VP .47 .61 .55 .58 .62 .64 .96 1.10 1.27 1.47	TV MEAN DEG K 293.66 287.75 286.11 283.57 269.92 263.57 259.75 242.28	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72	02 .14 .16 44 64 85 94 -1.01 -1.05	DELPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86	DEG K 5.98 4.22 4.04 4.41 5.14 6.81 6.86 6.66 6.60 5.60 5.62	32 19 25 27 29 52 28 30 26 20	1168. 1168. 1241. 1204. 1168. 1126. 1083. 1027. 1006. 910.	1168 . 1168 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 .
KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000	- 725720 YAPOR P MEN 10.500 7.185 6.407 4.456 3.086 1.994 1.145 .615 .329 1.71 .091	DUCHAY S.O. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .367 .206 .067	' (SALT LAKE SKEW VP .47 .61 .55 .58 .62 .64 .96 1.10 1.27 1.47 5.51	E CLTY1 TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92 263.57 256.87 249.75 242.28 234.70	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.17	02 .14 .16 44 64 85 94 -1.01 -1.03 90	DEI/PT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21	DEG K 5.98 4.22 4.04 4.41 5.14 6.41 6.84 6.40 5.82 5.44	32 19 25 27 29 52 28 30 26 20 18	1168, 1169, 1241, 1204, 1169, 1126, 1093, 1007, 1006, 910, 459,	1168 - 1158 - 1241 - 1241 - 1241 - 1241 - 1241 - 1241 - 1241 - 1241 - 1241 -
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000	- 725720 VAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994 1.145 .615 .329 .171 .067	DUGHAY S.O. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .307 .206 .106 .106 .067	' ISALT LAKE SKEW VP .47 .61 .55 .58 .62 .64 .96 1.10 1.27 1.47 5.51	E CLTY) TV MEAN DEG K 293.56 287.75 286.11 283.34 276.40 269.92 263.57 249.75 249.75 249.29 234.70 227.44	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.17 3.50	02 .14 .16 .16 44 64 85 99 -1.01 -1.05 90	DELPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92	DEG K 5.98 4.29 4.94 5.14 6.44 6.66 6.40 5.84 7.14	32 19 25 27 29 52 28 30 26 26 18 75	1168. 1169. 1241. 1204. 1169. 1126. 1033. 1037. 1006. 910. 459. 20.	1168 . 1168 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 .
KM .000 1.000 1.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000	- 725720 VAPOR P MEN 10.500 7.185 6.407 4.456 3.086 1.994 1.145 .615 .329 .171 .091 .067 99.999	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.204 .968 .657 .307 .206 .106 .067 .043 99.999	' (SALT LAKE SKEH VP .47 .61 .55 .58 .62 .64 .96 1.10 1.27 1.47 5.51 .48 999.99	TV NEAN DEG K 293.66 287.75 296.11 283.34 276.40 269.92 263.57 249.75 242.28 234.70 277.44 221.45	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.17 3.50 3.47	02 .14 .16 44 64 85 94 -1.01 -1.03 90 42	DELPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99	DEG K 5.98 4.22 4.94 5.14 6.94 6.96 6.90 5.82 7.14 99.99	32 19 25 27 29 52 26 20 18 75 999 . 99	1168, 1169, 1241, 1204, 1169, 1126, 1093, 1007, 1006, 910, 459,	1168 - 1158 - 1158 - 1241 - 12
KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000	- 725720 VAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994 1.145 .615 .329 .171 .067	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .357 .206 .106 .067 .043 99.999 99.999	' (SALT LAKE SKEW VP .47 .61 .55 .58 .62 .64 .96 1.10 1.27 1.47 5.51 .48 999.99	TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92 263.57 255.87 249.75 242.28 234.70 27.44 221.45 217.22	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.17 3.50	02 .14 .16 .16 44 64 85 99 -1.01 -1.05 90	DELPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92	DEG K 5.98 4.29 4.94 5.14 6.44 6.66 6.40 5.84 7.14	32 19 25 27 29 52 28 30 26 26 18 75	1168. 1169. 1241. 1204. 1169. 1126. 1027. 1006. 910. 459. 20.	1168 . 1168 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 .
KM .000 1.000 1.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000	- 725720 YAPOR P MEAN MED 10.500 7.185 6.407 4.456 3.086 1.994 1.145 615 .329 .171 .091 .067 99.999 99.999	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999	' (SALT LAKE SKEW VP .47 .61 .55 .58 .62 .64 .96 1.10 1.27 1.47 5.51 .98 .999.99 .999.99	TV MEAN DEG K 293.56 287.75 283.34 276.40 269.92 263.57 249.75 242.28 234.70 227.44 221.45 217.22 214.68 212.72	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.17 3.50 3.47 4.22 4.35	02 .14 .16 .44 64 85 94 -101 -1.05 90 42 .44 .44	DELPT T MEAN DEG K 279.81 274.86 273.86 273.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99	DEG K 5.98 4.04 4.41 5.14 6.46 6.46 6.46 5.44 99.99 99.99	32 19 25 27 29 52 28 30 26 26 18 75 999. 99 999. 99	1168. 1168. 1241. 1204. 1168. 1126. 1083. 1007. 1006. 910. 459. 20. 0.	1168 . 1168 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1239 . 1239 . 1239 . 1230 . 1230 . 1230 . 1230 .
KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000	- 725720 VAPOR P MEN 10.500 7.185 6.407 4.456 3.086 1.994 1.145 .615 .329 .171 .091 .067 99.999 99.999 99.999	DUGHAY S.D. VP MB 4.080 2.143 1.847 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999	. (SALT LAKE SKEH VP .47 .61 .55 .58 .62 .64 .96 1.10 1.27 1.47 5.51 .48 999.99 999.99 999.99	TV   TV   MEAN   DEG   K   293.66   287.75   296.11   283.34   276.40   269.92   263.57   256.87   249.75   249.75   249.28   234.70   271.44   221.45   217.22   214.68   212.72   210.79	TV \$.0. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.00 9.17 4.96 4.72 4.17 3.50 3.47 4.22 4.35 4.11 4.06	02 .14 .16 64 85 94 -1.01 -1.03 90 42 .02 .44 .12	DELPT T  HEAN  DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99 999.99	DEG K 5.98 4.04 4.41 5.14 6.84 6.66 6.90 5.82 5.44 7.19 99.99 99.99	32 19 25 27 29 52 26 20 18 75 999 . 99 999 . 99	1168. 1168. 1241. 1204. 1168. 1126. 1083. 1027. 1006. 910. 459. 20. 0. 0.	1168. 1168. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1231. 1237. 1239. 1237. 1239.
KM .000 1.000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 14.000 14.000 15.000	- 725720  VAPOR P  MEAN  MB  10.500  7.185  6.407  4.456  3.986  1.994  1.145  615  617  .067  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447 1.204 .657 .306 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999	' (SALT LAKE SKEW VP .47 .61 .55 .58 .62 .64 .96 .1.10 1.27 1.47 5.51 .48 .999.99 .999.99 .999.99	E CLTY1 TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92 263.57 258.87 259.75 249.75 2	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 9.07 4.96 4.72 4.17 3.50 3.47 4.22 4.35 4.31 4.06 4.21	02 .14 .16 64 85 91 -1.01 -1.03 90 42 .02 .44 .12	DELPT T  HEAN DEG K 279.81 274.86 273.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99	DEG K 5.98 4.04 4.41 5.41 6.84 6.60 5.60 5.40 7.14 99.99 99.99 99.99	32 19 25 27 29 52 26 30 26 20 18 75 999 . 99 999 . 99 999 . 99 999 . 99	1168. 1169. 1241. 1204. 1166. 1126. 1083. 1007. 1006. 910. 459. 20. 0. 0.	1168 - 1158 - 1241 - 1241 - 1241 - 1241 - 1241 - 1241 - 1239 - 12
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 14.000 15.000 14.000 15.000 16.000 17.000	- 725720 VAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994 1.145 .615 .329 .171 .067 99.999 99.999 99.999 99.999 99.999 99.999 99.999	DUGHAY S.O. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .206 .106 .106 .067 .043 99.999 99.999 99.999 99.999	' (SALT LAKE SKEW VP .47 .61 .55 .62 .64 .96 1.10 1.27 1.47 5.51 .48 .999.99 .999.99 .999.99 .999.99	E CLTY1 TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92 263.57 256.87 249.75 244.28 234.70 227.44 221.45 217.72 219.68 212.72 210.79 209.65 209.66	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.17 3.50 3.47 4.11 4.06 4.35 4.11 4.06 4.21 3.82	02 .14 .16 .44 65 95 - 1.01 - 1.05 90 92 .02 .44 .12 .12 .12 .13	DELPT T MEAN OEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99 999.99	0EG K 5.98 4.22 4.04 4.41 5.14 6.84 6.66 6.90 5.82 5.44 77.14 99.99 99.99 99.99	32 19 25 27 29 52 26 20 18 75 999 . 99 999 . 99 999 . 99	1168. 1169. 1241. 1204. 1168. 1126. 1093. 1007. 1006. 910. 459. 20. 0. 0. 0.	1168 . 1158 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1231 . 1232 . 1232 . 1232 . 1231 . 1232 . 1231 . 1232 . 1231 . 1231 .
STATION Z  KM .000 1.000 1.000 1.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 15.000 15.000 16.000 17.000 16.000 17.000 18.000	- 725720  VAPOR P  MEAN  MB  10.500  7.185  6.407  4.456  3.986  1.994  1.145  615  617  .067  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447 1.204 .657 .306 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999	' (SALT LAKE SKEW VP .47 .61 .55 .58 .62 .64 .96 .1.10 1.27 1.47 5.51 .48 .999.99 .999.99 .999.99	E CLTY1 TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92 263.57 258.87 259.75 249.75 2	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 9.07 4.96 4.72 4.17 3.50 3.47 4.22 4.35 4.31 4.06 4.21	02 .14 .16 64 85 91 -1.01 -1.03 90 42 .02 .44 .12	DELPT T  HEAN DEG K 279.81 274.86 273.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99	DEG K 5.98 4.04 4.41 5.41 6.84 6.60 5.60 5.40 7.14 99.99 99.99 99.99	32 19 25 27 28 26 26 26 26 26 29 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99 999. 99	1168. 1169. 1241. 1204. 1166. 1126. 1083. 1007. 1006. 910. 459. 20. 0. 0.	1168. 1168. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1231. 1237. 1239. 1237. 1239. 1230. 1200.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 14.000 15.000 14.000 15.000 16.000 17.000	- 725720  VAPOR P  MEAN  MB  10.500  7.185  6.407  4.456  3.086  1.994  1.145  .329  .171  .067  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999 99.999 99.999	SKEH VP  .47 .61 .55 .62 .64 .96 .1.10 1.27 1.47 5.51 .48 999.99 999.99 999.99 999.99	E CLTY1 TV MEAN DEG K 293.66 287.75 286.11 283.34 276.40 269.92 263.57 258.87 249.75 249.75 249.75 241.45 211.45 211.68 212.72 219.65 209.65 209.66 211.60 213.04	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.00 4.96 4.72 4.17 3.50 3.47 4.22 4.35 4.11 4.06 4.21 3.82 3.24 2.61 2.33	02 .14 .16 64 85 91 - 1.03 90 92 .02 .44 .12 .52 .29 .10	DELPT T HEAN DEG K 279.81 274.86 273.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99 999.99 999.99	DEG K 5.98 4.04 4.41 5.41 6.84 6.66 6.66 5.40 7.14 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 29 52 26 30 26 26 26 27 999 . 99 999 . 99	1168. 1169. 1241. 1264. 1166. 1083. 1007. 1006. 910. 459. 20. 0. 0. 0. 0.	1168 - 1158 - 1241 - 1241 - 1241 - 1241 - 1241 - 1239 - 12
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 19.000 20.000 21.000	- 725720  VAPCR P  MEAN  MB  10.500  7.185  6.407  4.456  3.086  1.994  1.145  .615  .329  .71  .067  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.O. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	' (SALT LAKE SKEW VP	E CLTY1 TV MEAN DEG K 293.66 287.75 287.75 283.34 276.40 263.57 249.75 249.75 249.75 249.75 211.45 211.45 211.72 211.68 212.72 210.66 211.80 213.94	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.17 3.50 3.47 4.11 4.06 4.21 4.35 4.11 4.06 4.21 2.21 2.21	02 .14 .16 .16 .44 .65 95 - 1.01 - 1.05 90 .02 .44 .44 .15 .12 .12 .13 .14 .15 .15 .15 .15 .15 .15 .15 .15 .15 .15	DELPT T MEAN DEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.98 4.92 4.04 4.41 5.41 6.84 6.65 6.40 5.82 5.44 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 52 58 30 26 20 18 75 999 . 99 999 . 99	1168. 1169. 1241. 1204. 1168. 1126. 1083. 1007. 1006. 910. 459. 20. 0. 0. 0. 0.	1168 . 1158 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1241 . 1231 . 1232 . 1232 . 1232 . 1231 . 1232 . 1231 . 1232 . 1231 . 1232 . 1231 . 1232 . 1233 . 1235 . 1236 . 1237 . 1238 . 1239 . 1230 . 1231 . 1231 . 1232 . 1233 . 1235 . 1236 . 1237 . 1238 . 1238 . 1239 . 1230 . 1230 . 1231 . 1231 . 1232 . 1233 . 1235 . 1236 . 1237 . 1238 . 1238 . 1238 . 1239 . 1230 . 1240 . 1250 . 1260 . 1270 .
STATION Z  KM .000 1.000 1.000 3.000 4.000 5.000 6.000 10.000 11.000 12.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 16.000 17.000 19.000 20.000 20.000 22.000 22.000	- 725720  VAPCR P  MEAN  MB  10.500  7.185  6.407  4.456  3.086  1.994  1.145  .615  .329  .171  .067  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.O. VP MB 4.080 2.143 1.847 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	' (SALT LAKE SKEW VP	TV MEAN DEG K 293.56 287.75 296.11 283.34 276.40 269.92 263.57 249.75 242.28 234.70 277.44 221.45 217.22 214.68 212.72 210.66 211.80 213.04 214.34 215.49	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.77 4.22 4.35 4.11 4.06 4.21 3.50 5.23 2.24 2.61 2.33 2.24	02 .14 .16 .34 64 65 91 - 1.05 90 42 .12 .14 .52 .29 .10 .16 .24 .29 .10	DELPT T MEAN DEG K 279.81 274.86 273.80 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.98 4.22 4.04 4.41 5.14 6.86 6.66 6.40 5.84 7.14 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 29 52 26 30 26 20 18 75 999 . 99 999 . 99	1168. 1168. 1241. 1204. 1168. 1126. 1083. 1007. 1006. 910. 459. 20. 0. 0. 0. 0.	1168. 1168. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1239. 1239. 1239. 1239. 1239. 1239. 1239. 1210. 12
KM .000 1.000 1.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 15.000 16.000 17.000 18.000 19.000 19.000 20.000 21.000 21.000 23.000 23.000	- 725720 VAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994 1.145 615 629 .171 .091 .067 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	DUGHAY S.D. VP MB 4.080 2.143 1.847 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	SKEH VP  .47 .61 .55 .62 .64 .96 .1.10 1.27 1.47 5.51 .48 999.99 999.99 999.99 999.99 999.99 999.99	TV TV MEAN DEG K 293.66 287.75 296.11 283.34 276.40 269.92 263.57 256.87 257.44 221.45 217.22 214.68 212.72 219.66 211.60 213.04 214.34 215.49 216.70	TV \$.0. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.00 4.77 4.77 4.77 4.35 4.11 4.06 4.21 3.82 4.23 2.61 2.23 2.24 2.28	02 .14 .16 64 85 91 - 1.03 90 42 .12 .14 .15 .29 .10 .16 .21 .21 .21	DELPT T  MEAN  DEG K  279.81  274.86  273.80  268.27  263.24  257.31  250.44  243.56  237.09  230.86  225.21  221.92  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99	DEG K 5.98 4.04 4.41 5.41 6.84 6.66 6.90 5.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 28 36 36 36 26 26 18 75 999 . 99 999 . 99	1168. 1168. 1241. 1204. 1166. 1126. 1083. 1037. 1036. 910. 459. 20. 0. 0. 0. 0.	1168. 1158. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1230.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 14.000 15.000 16.000 17.000 16.000 17.000 20.000 21.000 21.000 23.000 24.000	- 725720  VAPOR P  MEAN  MB  10.500  7.185  6.407  4.456  3.086  1.994  1.145  .615  .329  .171  .067  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .357 .357 .306 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	' (SALT LAKE SKEW VP	TV MEAN DEG K 293.56 287.75 296.11 283.34 276.40 269.92 263.57 249.75 242.28 234.70 277.44 221.45 217.22 214.68 212.72 210.66 211.80 213.04 214.34 215.49	TV S.D. DEG K 11.94 8.68 7.94 6.09 5.77 5.23 5.08 5.07 4.96 4.72 4.77 4.22 4.35 4.11 4.06 4.21 3.50 5.23 2.24 2.61 2.33 2.24	02 .14 .16 .34 64 65 91 - 1.05 90 42 .12 .14 .52 .29 .10 .16 .24 .29 .10	DELPT T MEAN DEG K 279.81 274.86 273.80 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.98 4.22 4.04 4.41 5.14 6.86 6.66 6.40 5.84 7.14 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 29 52 26 30 26 20 18 75 999 . 99 999 . 99	1168. 1168. 1241. 1204. 1168. 1126. 1083. 1007. 1006. 910. 459. 20. 0. 0. 0. 0.	1168. 1168. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1239. 1239. 1239. 1239. 1239. 1239. 1239. 1210. 12
KM .000 1.000 1.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 15.000 16.000 17.000 18.000 19.000 19.000 20.000 21.000 21.000 23.000 23.000	- 725720 VAPOR P MEAN MB 10.500 7.185 6.407 4.456 3.086 1.994 1.145 615 629 .171 .091 .067 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	DUGHAY S.D. VP MB 4.080 2.143 1.847 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	' (SALT LAKE SKEW VP 47 61 55 55 62 64 96 1.10 1.27 1.47 5.51 48 999 99	TV MEAN DEG K 293.66 287.75 296.11 283.34 276.40 269.92 263.57 249.75 244.28 21.45 217.22 210.79 209.65 211.60 213.04 214.34 215.49 216.70 217.92	TV \$.0. DEG K 11.94 8.69 5.77 5.23 5.08 5.07 4.96 4.17 3.50 3.47 4.22 4.11 4.06 4.21 3.82 3.24 2.31 2.23 2.24 2.32 2.24 2.32 2.24 2.32 2.24 2.32 2.32 2.32 2.32 2.32 2.32 2.32 2.32 2.32 2.33 2.34	02 .14 .16 .164 64 85 94 - 1.05 90 42 .12 .13 .14 .15 .24 .19 .11 .11 .11 .11 .11 .11 .11	DELPT T  MEAN  DEG K  279.81  274.86  273.30  268.27  263.24  257.31  250.344  243.56  237.09  230.86  225.21  221.92  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99	DEG K 5.98 4.04 4.41 5.14 6.84 6.66 6.87 7.19 99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 28 26 26 26 26 26 26 26 26 26 26 27 999. 99 999. 99	1168. 1168. 1241. 1204. 1166. 1083. 1027. 1006. 910. 459. 20. 0. 0. 0. 0. 0. 0.	1168. 1158. 1241.
KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 19.000 20.000 21.000 21.000 23.000 24.000 25.000 26.000 26.000 26.000	- 725720  VAPOR P  MEN  MB  10.500  7.185  6.497  4.456  3.086  1.994  1.145  .615  .329  .171  .091  .067  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.080 2.143 1.847 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	SKEH VP  .47 .61 .55 .62 .64 .96 .1.10 1.27 1.47 .5.51 .48 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	TV TV MEAN DEG K 293.66 287.75 296.11 283.34 276.40 269.92 263.57 256.87 257.44 221.45 217.22 214.68 212.72 219.66 211.60 213.04 214.34 216.70 217.92 219.02 220.19 221.53	TV \$.0. K 11.94 8.68 7.94 8.69 6.09 5.77 5.08 5.00 4.96 4.17 4.35 4.35 4.37 4.35 4.31 4.32 4.31 4.32 4.33 8.42 8.42 8.43 8.42 8.42 8.42 8.42 8.42 8.42 8.42 8.43 8.42 8.42 8.43 8.44	02 .14 .16 64 85 91 -1.03 90 42 .12 .14 .15 .29 .10 .15 .21 .21 .21 .21 .21 .21 .21 .21 .21 .21	DELPT T  MEAN  DEG K  279.81  274.86  273.81  250.44  257.31  250.44  243.56  237.09  230.86  225.21  221.92  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99	DEG K 5.98 4.04 4.41 5.41 6.84 6.62 6.40 5.44 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 28 30 26 30 26 26 26 26 29 999. 99 999. 99	1168. 1169. 1241. 1204. 1168. 1126. 1083. 1027. 1006. 910. 459. 20. 0. 0. 0. 0. 0. 0.	1168. 1158. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1231. 1231. 1232. 1232. 1232. 1232. 1232. 1232. 1232. 1233. 1234.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 20.000 21.000 23.000 23.000 25.000 26.000 26.000 26.000 26.000	- 725720  VAPOR P  MEAN  MB  10.500  7.185  6.407  4.456  3.086  1.994  1.145  .615  .329  .71  .067  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.O. VP MB 4.080 2.143 1.844 1.447 1.204 .968 .657 .206 .106 .067 .043 99.999	' (SALT LAKE SKEW VP	E CLTY1 TV MEAN DEG K 293.66 287.75 283.34 276.40 269.92 263.57 255.87 249.75 244.28 234.70 237.44 221.45 217.72 210.79 209.65 210.66 211.80 213.04 215.49 216.49 216.49 217.92 219.02 220.19 222.27	TV \$.0. DEG K 11.94 8.69 5.77 5.23 5.00 5.07 4.96 4.17 3.50 3.47 4.17 3.50 3.47 4.11 4.01 3.82 4.11 4.01 3.82 4.23 4.24 4.23 4.24 4.25	02 .14 .16 .44 65 95 - 1.01 - 1.05 92 .02 .44 .12 .13 .13 .18 .13 .18 .13 .18	DELPIT T MEAN OEG K 279.81 274.86 273.30 268.27 263.24 257.31 250.44 243.56 237.09 230.86 225.21 221.92 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	0EG K 5.98 4.04 4.41 5.41 6.84 6.66 6.80 5.44 7.11 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 52 26 36 36 36 36 26 18 75 999 . 99 999 . 99	1168. 1168. 1241. 1204. 1168. 1126. 1083. 1007. 1006. 910. 459. 20. 0. 0. 0. 0. 0. 0. 0. 0.	1168 - 1158 - 1241 - 1241 - 1241 - 1241 - 1241 - 1241 - 1241 - 1239 - 1237 - 1237 - 1237 - 1237 - 1238 - 1237 - 1238 - 1237 - 1238 - 1237 - 1238 - 12
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.000 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 21.000 23.000 24.000 25.000 26.000 26.000 26.000	- 725720  VAPOR P  MEN  MB  10.500  7.185  6.497  4.456  3.086  1.994  1.145  .615  .329  .171  .091  .067  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999  99.999	DUGHAY S.D. VP MB 4.080 2.143 1.847 1.204 .968 .657 .206 .106 .067 .043 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	SKEH VP  .47 .61 .55 .62 .64 .96 .1.10 1.27 1.47 .5.51 .48 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	TV TV MEAN DEG K 293.66 287.75 296.11 283.34 276.40 269.92 263.57 256.87 257.44 221.45 217.22 214.68 212.72 219.66 211.60 213.04 214.34 216.70 217.92 219.02 220.19 221.53	TV \$.0. K 11.94 8.68 7.94 8.69 6.09 5.77 5.08 5.00 4.96 4.17 4.35 4.35 4.37 4.35 4.31 4.32 4.31 4.32 4.33 8.42 8.42 8.43 8.42 8.42 8.42 8.42 8.42 8.42 8.42 8.43 8.42 8.42 8.43 8.44	02 .14 .16 64 85 91 -1.03 90 42 .12 .14 .15 .29 .10 .15 .21 .21 .21 .21 .21 .21 .21 .21 .21 .21	DELPT T  MEAN  DEG K  279.81  274.86  273.81  250.44  257.31  250.44  243.56  237.09  230.86  225.21  221.92  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99  999.99	DEG K 5.98 4.04 4.41 5.41 6.84 6.62 6.40 5.44 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	32 19 25 27 28 30 26 30 26 26 26 26 29 999. 99 999. 99	1168. 1169. 1241. 1204. 1168. 1126. 1083. 1027. 1006. 910. 459. 20. 0. 0. 0. 0. 0. 0.	1168. 1158. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1241. 1231. 1231. 1232. 1232. 1232. 1232. 1232. 1232. 1232. 1233. 1234.

TABLE	[[]. 1]		RELATED ST		PARAMETERS	5. N	OVENBER				
Z	* 725720 VAPOR P	S.D. VP	y (salt lak Gkeh vp	E CITY)	TV	SKEN TV	DEMPTT	5.0. DPT	SKEH OPT	NOBS T+P	NOBS TV
_	MEAN			MEAN	<b>5</b> .0.		MEAN				
KM	MB	MB		DEG K	DEG K		DEG K	DEG K			
.000 1.000	8.693 5.92 <b>8</b>	3.317 1.761	. 33	286.1 <b>6</b>	9.29 6.75	19	277. <b>07</b> 272. <b>19</b>	5.95	55	1155.	1156.
1.288	5.300	1.499	.51 .52	280. <b>67</b> 279. <b>0</b> 1	6.20	80. E.i.	270.73	4.20 3.94	40 44	1155. 1202.	1155. 1202.
2.000	3.664	1.260	.49	276.11	5.70	~.05	265.63	4.63	34	1193.	1202
3.000	2.507	1.110	.43	269.98	5.61	30	260.28	6.16	66	1155.	1202.
4.000	1.570	.887	. 78	264.27	5.47	51	254.61	7.26	•:	1106.	1202
5.000 6.000	.927 .530	.589 .362	1.14	258.23 251.69	5.49 5.45	63 68	247.70 241.48	7.50 7.51	36 30	1078. 1051.	1 <b>20</b> 2. 1 <b>2</b> 02.
7.000	.284	. 191	1.31	244.72	5.45	~.57	235.20	7.02	- 4	1004.	1200.
8.000	. 151	.091	1.59	237.55	5.17	~ . 37	229.83	5.71	56	763.	:200.
9.000	.097	.056	1.09	230.39	يهار يا	~.07	225.99	5.14	20	177.	1159.
10.000	99.999 99.999	<b>99</b> .999	999.99	223.89	3.75 4.04	. 15 .60	999,99 999,99	99.99	992.93	۷.	1.05.
11.000	99.999	<b>99</b> .999 <b>99</b> .999	999.99 999.99	218,89 215,94	4.93	. 34	999.99	99.99 39.99	999.99 999.99	0. 0.	1198. 11 <b>9</b> 0.
13.000	99.999	99.999	999.99	214,48	5.03	23	999.99	99.99	999.99	0.	1189
14.000	99.999	99.999	999.99	213,20	4.34	22	999.99	99.99	999.99	0.	1179.
15.000	99.999	99.399	999.99	211.71	4.24	02	999.99	99.99	999.99	0.	1175.
16.000 17.000	99,999 <b>9</b> 9,999	99.999	999.99	217.76	4.21 3.72	15	999.99	99.99	999,99	0.	1163.
18.000	99.999	99.999 99.999	999.99 999.99	210.69 210.96	3.12	~.13 ~.11	999.99 999.99	99.99 99.99	999.99 999.99	0. 0	1157. 1149.
19.000	99.999	99.999	999.99	211.35	2.67	.04	999 99	99.99	999.99	0.	113.
20.000	<b>99.9</b> 99	99.999	999.99	211.85	5.44	16	939.99	99.99	999.99	0.	1110.
51 000	99.939	99.999	999.99	212.52	2. <i>2</i> 9	12	999.99	99.99	999.99	0.	1055.
22 000 23.000	99.999 99.999	99.999 99.999	999.99 999.99	213.36	2.38 2.41	~.46 ~.33	599.99 999.99	99.99 99.99	999.99	0. 0.	1031. 907.
24.000	99.993	93.999	999.99	214.34 215.36	5.60	36	999.99	99.99	999.99 999.99	0.	1003.
25.000	99.999	99.999	999.99	216.24	2.70	20	999.99	99.99	999.99	0.	97C.
26.000	<b>99</b> 599	99.999	939.99	217.08	2.75	22	999.99	99.39	<i>9</i> 99.99	0.	934.
27.000	99 999	99.999	999.99	218.02	5.67	18	999.99	99.99	999.99	0.	843
28.000 29.000	99, 999 99, 993	99,999 93,999	999, 99 999, 99	218.74 219.65	3.02 3.09	07 05	999.99 999.99	99.99 99.99	999.99 999.99	0. 0.	759. 608.
30.000	59 939	99,999	936.99	220.58	3.24	15	999.99	99.99	999.99	0.	698. 442.
	111. 12 • 725720	DUGHA	RELATED ST	E CITY)			A38M303	en ner	CUTU NOT	NOOS T.O	NODE TV
					PARAMETERS TV 5.0.	S. DI	ECEMBER DEHPT T MEAN	S.D. DPT	SKEH DPT	NOBS T+P	NORS TV
STATION Z KM	* 725720 VAPOR P MEAN MB	DUGHA S.D. VP MB	Y (SALT LAK SKEH VP	E CITY) TV MEAN DEG K	TV S.D. DEG K	skeh tv	DEHPT T MEAN DEC K	DEG K	<b>S</b> KEH DPT	NOBS T+P	NORS TV
STATION Z KM .000	* 725720 VAPOR P MEAN MB 6.520	DUGHA S.D. VP MB 8.981	Y (SALT LAK SKEH VP .38	E CITY) TV MEAN DEG K 278.55	TV 5.D. DEG K 9.01	SKEH TV	DEHPT 1 MEAN DEC K 272.53	DEG K 7.31	84	1161.	1161.
STATION Z  KM .000	• 725720 VAPOR P MEAN MB 6.520 4.670	DUGHA 5.D. VP MB 2.981 1.649	Y (SALT LAK SKEH VP .38 .33	TE CITY) TV MEAN DEG K 278.55 274.36	TV 5.D. DEG K 9.01 6.37	57	DEHPT 1 MEAN DEC K 272.53 268.70	0EG K 7,31 5,19	84 81	1161. 1161.	1161.
XM .000 1.000 1.288	* 725720 VAPOR P MEAN MB 6.520 4.670 4.244	DUGNA 5.0, VP MB 2.981 1.649 1.404	Y (SALT LAK SKEH VP .38 .33 ,30	TV MEAN DEG K 278.55 274.36 273.04	7V 5.D. DEG K 9.01 6.37 5.79	SKEH TV 57 40 30	DEHPT T MEAN DEC K 272.53 268.70 267.54	DEG K 7.31 5.19 4.78	84 81 81	1161. 1161. 1238.	1161. 1161. 1238.
STATION Z  KM .000	• 725720 VAPOR P MEAN MB 6.520 4.670	DUGHA 5.D. VP MB 2.981 1.649	Y (SALT LAK SKEH VP .38 .33	TE CITY) TV MEAN DEG K 278.55 274.36	TV 5.D. DEG K 9.01 6.37	57	DEHPT 1 MEAN DEC K 272.53 268.70	0EG K 7,31 5,19	84 81	1161. 1161.	1161.
STATION Z  KM .000 1.000 1.288 2.000 3.000 4.000	* 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336	PUGHA 5.0. VP MB 2.981 1.649 1.404 1.163 1.022	Y (SALT LAX SKEH VP .38 .33 .30 .66 .67 .89	TV MEAN DEG K 278.55 274.36 273.04 271.66 266.44 261 20	TV 5.D. DEG K 9.01 6.37 5.79 5.83 6.16 6.14	57 40 30 15 32 51	DEHPT T MEAN DEC K 272.53 268.70 267.54 262.88 258.04 251.94	DEG K 7.31 5.19 4.78 5.10 6.33 7.45	84 81 81 35 42	1161. 1161. 1238. 1228. 1161. 1118.	1761. 1161. 1238. 1239. 1239. 1237.
XM .000 1.000 1.298 2.000 3.000 4.000 5.000	* 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770	DUGHA' 5.0. VP MB 2.981 1.649 1.163 1.022 814 .523	Y (SALT LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19	E CITY) TV MEAN DEG K 278.55 273.39 273.09 271.66 266.44 261: 20 255.24	TV S.D. DEG K 9.01 6.37 5.79 5.83 6.16 6.14 6.26	57 40 30 15 32 51 63	DEHPT 1 MEAN DEC K 272.53 268.70 267.54 262.88 258.04 251.94 245.47	DEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63	84 81 81 35 42 24 17	1161. 1161. 1238. 1228. 1161. 1118.	1161. 1161. 1238. 1239. 1239. 1237.
KM .000 1.000 1.298 2.000 3.000 4.000 5.000 6.000	- 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436	PUGNA' 5.0, VP MB 2.981 1.649 1.404 1.163 1.022 .814 .523	Y (SALT LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19	E CITY) TV MEAN DEG K 278.55 274.36 273.04 271.66 266.44 261.20 2555.24 248.56	TV 5.D. DEG K 9.01 6.37 5.79 5.83 6.16 6.14 6.26 5.26	57 40 30 15 32 51 63 63	DEHPT T MEAN DEC K 272-53 268-70 267-54 262-88 258-94 251-94 245-47 239-46	DEG K 7,31 5,19 4,78 5,10 6,33 7,45 7,63 7,54	84 81 81 35 42 24 17	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1250.	11617 11617 1238 1238 1239 1239 1237 1237 1237
XM .000 1.000 1.298 2.000 3.000 4.000 5.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436	PUGNA' 5.0. VP MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .303	Y (SALT LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19 1.15 1.08	E CITY) TV MEAN DEG K 278.55 273.39 273.09 271.66 266.44 261: 20 255.24	TV S.D. DEG K 9.01 6.37 5.79 5.83 6.16 6.14 6.26	57 40 30 15 32 51 63	DEHPT 1 MEAN DEC K 272.53 268.70 267.54 262.88 258.04 251.94 245.47	DEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63	84 81 81 35 42 24 17 11	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1050.	1161. 1161. 1238. 1239. 1239. 1237. 1237. 1237.
KM .000 1.000 1.289 2.000 4.000 5.000 5.000 6.000 9.000	- 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 1.336 .770 .436 .233 .131	PUGNA' 5.0. VP MB 2.981 1.649 1.404 1.163 1.022 814 .523 .303 .152 .069 .040	Y (SALT LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19 1.15 1.08 .53	E CITY) TV MEAN DEG K 278.55 274.36 273.04 271.66 265.24 248.50 241.55 247.58	TV \$.0. DEG K 9.01 6.37 5.79 5.83 6.14 6.26 5.26 5.26 5.27 4.24	57 40 30 15 51 63 51 55 36	DEWPT T MEAN DEC K 272:53 268:70 267:54 268:80 94 251:94 245:47 239:46 233:51 228:60 224:40	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.54 6.54 5.63	84 81 81 35 42 24 17 11 81	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1070. 839. 551.	1/61, 1161, 1238, 1239, 1237, 1237, 1277, 1277, 1276, 1231, 1233,
STATION Z  KM .000 1.000 1.298 2.000 3.000 4.000 5.000 5.000 6.000 7.006 8.000 9.000 10.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436 .233 .131 .082 99.999	DUGNA' 5.0. VP MB 2.981 1.649 1.404 1.163 1.022 814 523 303 .152 .069 .040 99.999	Y (SALT LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19 1.15 1.08 .53 .16 .99.99	E CITY) TV MEAN DEG K 278.55 274.36 273.04 271.66 266.44 261.20 251.55 234.45 221.69	TV 9.0. DEG K 9.01 6.37 5.79 5.83 6.16 6.14 6.26 5.28 6.11 5.42 4.24 3.50	57 40 30 15 32 51 63 55 36	DEHPT 1 MEAN DEC K 272.53 268.70 267.54 262.68 258.04 251.94 245.47 233.46 233.51 228.60 224.40	DEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.54 6.54 5.63 5.74	84 81 35 42 24 17 :;; 2:	1161. 1161. 1238. 1228. 1161. 1118. 1048. 1040. 839. 551. 49.	1161 / 1161 / 1238 / 1238 / 1239 / 1237 / 1237 / 1237 / 1231 / 1233 / 1233 / 1233 / 1233 /
STATION Z  KM .000 1.000 1.200 2.000 3.000 4.000 5.000 6.000 7.006 8.000 9.000 10.000 11.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436 .233 .131 .082 99.999	PUGNA' 5.0. VP MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .303 .152 .069 .040 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.08 .53 .16 .99,99	E CITY) TV MEAN DEG K 278.55 274.36 273.66 271.66 266.44 261.26 241.55 234,45 227.58 221.69 217.64	TV \$.0. DEG K 9.01 6.37 5.79 5.83 6.14 6.28 6.14 6.28 5.14 6.28 5.11 5.42 4.24 3.50 4.62	57 40 30 15 32 51 63 55 36 .02	DEHPT 1 MEAN DEC K 272:53 268:70 267:54 262:88 258:04 251:94 245:46 233:51 228:60 224:40 999:99	DEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.54 5.63 5.74 99.99	84 81 85 42 24 17 11 82 - 1 .44 999.99	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1040. 839. 551. 49.	1161, 1161, 1239, 1239, 1237, 1237, 1277, 1277, 1277, 1278, 1231, 1233, 1233, 1233, 1233,
KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 6.000 9.000 10.000 11.000 12.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436 .736 .131 .082 99.999 99.999	PUGNA' 5.0. VP MB 2.981 1.649 1.404 1.163 1.022 814 .523 .303 .152 .069 .040 99.999 99.999	Y (SALT LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.08 .53 .16 .999.99	E CITY) TV MEAN DEG K 278.55 274.36 273.06 273.06 266.44 261.20 255.24 248.55 234.45 227.58 221.66 215.84	TV 9.0. DEG K 9.01 6.37 5.79 5.83 6.16 6.14 6.26 5.42 4.24 3.50 4.52 6.06	57 40 30 15 32 51 63 55 36 .02	DEWPT 1 MEAN DEC K 272.53 268.70 267.54 268.88 258.04 251.94 245.47 233.51 228.60 224.40 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.34 6.54 5.63 5.74 99.99	84 81 81 35 42 17 :1 82 - 1.44 999.99 999.99	1161. 1161. 1238. 1228. 1161. 1118. 1058. 1059. 551. 49. 2. 0.	1161, 1161, 1238, 1238, 1239, 1237, 1237, 1237, 1231, 1233, 1233, 1233, 1233, 1233, 1233, 1233,
STATION Z  KM .000 1.000 1.200 2.000 3.000 4.000 5.000 6.000 7.006 8.000 9.000 10.000 11.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436 .233 .131 .082 99.999	PUGNA' 5.0. VP MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .303 .152 .069 .040 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.08 .53 .16 .99,99	E CITY) TV MEAN DEG K 278.55 274.36 273.66 271.66 266.44 261.26 241.55 234,45 227.58 221.69 217.64	TV \$.0. DEG K 9.01 6.37 5.79 5.83 6.14 6.28 6.14 6.28 5.14 6.28 5.11 5.42 4.24 3.50 4.62	57 40 30 15 32 51 63 55 36 .02	DEHPT 1 MEAN DEC K 272:53 268:70 267:54 262:88 258:04 251:94 245:46 233:51 228:60 224:40 999:99	DEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.54 5.63 5.74 99.99	84 81 85 42 24 17 11 82 - 1 .44 999.99	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1040. 839. 551. 49.	1161, 1161, 1239, 1239, 1237, 1237, 1277, 1277, 1277, 1278, 1231, 1233, 1233, 1233, 1233,
KM .000 1.000 1.000 1.208 2.000 3.000 4.000 5.000 6.000 7.006 8.000 9.000 10.000 11.000 12.000 13.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436 .233 .131 .082 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .303 .152 .069 .040 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19 1.10 1.08 .53 .16 .99.99 .99.99 .999.99	E CITY) TV MEAN DEG K 278.55 274.36 273.66 273.66 273.66 266.44 261.20 255.22 241.55 234,45 221.69 217.64 215.46 215.46 213.54	TV \$.0. DEG K 9.01 6.37 5.79 5.18 6.14 6.24 6.24 5.24 3.62 6.06 5.77 4.19	57 40 30 15 32 51 63 55 36 .02 31 .56 .09 42	DEWPT 1 MEAN DEC K 272.53 268.70 267.54 262.88 258.04 251.94 253.51 228.60 224.40 999.99 999.99 999.99	DEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 5.74 5.63 5.74 99.99 99.99 99.99	84 81 35 42 24 17 21 21 21 22 1,44 29 29 29 29 29 29 29 29	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1070. 839. 551. 49. 0. 0.	1161, 1161, 1238, 1238, 1239, 1237, 1237, 1237, 1231, 1231, 1233, 1234, 1235,
KM .000 1.000 1.000 1.200 2.000 3.000 4.000 5.000 6.000 9.000 10.000 11.000 12.000 13.000 14.000 14.000 16.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 7.770 .436 .770 .436 .770 .939 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP MB 2.981 1.649 1.163 1.022 .814 .523 .303 .303 .303 .999 .990 .900	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.15 1.15 1.15 999.99 999.99 999.99 999.99	E CITY)  TV  MEAN DEG K K 278.555 274.366 273.166 266.44 273.166 261.27 274.555 274.569 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.67	TV 9.0. DEG K 9.01 6.37 5.79 5.83 6.14 6.28 5.41 5.42 4.50 4.50 5.77 4.52 4	57 40 30 15 51 63 51 63 55 36 .02 .31 .56 .09 42 13	DEWPT 1 MEAN DEC K 272.53 268.70 267.58 258.04 251.94 245.47 233.51 228.60 224.40 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.34 6.54 5.63 5.74 99.99 99.99	84 81 81 35 24 17 21 82 - 1 .44 999 .99 999 .99 999 .99 999 .99 999 .99	1161. 1161. 1238. 1228. 1161. 1118. 1058. 1070. 839. 551. 49. 2. 0. 0. 0.	1161, 1161, 1238, 1239, 1237, 1237, 1237, 1231, 1233, 1233, 1233, 1234, 1233, 1234, 1235, 1237,
KM .000 1.000 1.288 2.000 3.000 4.000 5.000 6.000 7.006 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 7.770 .436 .233 .131 .082 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	DUGNA' 5.0. VP MB 2.981 1.649 1.163 1.022 .814 .523 .152 .069 .999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .36 .66 .67 .89 1.15 1.08 .53 .16 .99.99 .99.99 .99.99 .99.99 .99.99 .99.99	E CITY) TV MEAN DEG K 278.55 274.36 273.04 271.66 266.44 261.26 241.55 234.56 241.55 237.58 221.69 217.64 215.45 21.81 213.54 211.83	TV 9.0. DEG K 9.01 6.37 5.79 5.83 6.14 6.26 5.24 3.50 4.62 6.77 4.52 4.19 4.23 4.08	57 40 30 15 32 51 63 55 36 .02 31 .56 .09 42 13	DEHPT 1  MEAN DEC K 272.53 268.70 267.54 262.88 258.04 251.94 245.47 233.51 228.40 299.99 999.99 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.54 5.63 5.74 99.99 99.99 99.99	84 81 81 35 42 17 17 17 17 19	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1070. 839. 551. 49. 0. 0. 0. 0.	1/61, 1161, 1238, 1238, 1237, 1237, 1237, 1231, 1233, 1234, 1235,
KM .000 1.000 1.000 1.200 2.000 3.000 4.000 5.000 6.000 9.000 10.000 11.000 12.000 13.000 14.000 14.000 16.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 7.770 .436 .770 .436 .770 .939 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP MB 2.981 1.649 1.163 1.022 .814 .523 .303 .303 .303 .999 .990 .900	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.15 1.15 1.15 999.99 999.99 999.99 999.99	E CITY)  TV  MEAN DEG K K 278.555 274.366 273.166 266.44 273.166 261.27 274.555 274.569 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.664 271.67	TV 9.0. DEG K 9.01 6.37 5.79 5.83 6.14 6.28 5.41 5.42 4.50 4.50 5.77 4.52 4	57 40 30 15 51 63 51 63 55 36 .02 .31 .56 .09 42 13	DEWPT 1 MEAN DEC K 272.53 268.70 267.58 258.04 251.94 245.47 233.51 228.60 224.40 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.34 6.54 5.63 5.74 99.99 99.99	84 81 81 35 24 17 21 82 - 1 .44 999 .99 999 .99 999 .99 999 .99 999 .99	1161. 1161. 1238. 1228. 1161. 1118. 1058. 1070. 839. 551. 49. 2. 0. 0. 0.	1161, 1161, 1238, 1239, 1237, 1237, 1237, 1231, 1233, 1233, 1233, 1234, 1233, 1234, 1235, 1237,
KM .000 1.000 1.200 1.200 3.000 4.000 5.000 4.000 5.000 6.000 10.000 11.000 12.000 13.000 14.000 17.000 18.000 19.000 20.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 7.770 .436 .736 .736 .99.999 99.999	PUGNA' 5.0. VP  M8 2.981 1.649 1.404 1.163 1.022 .052 .053 .303 .303 .303 .999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.15 1.15 1.08 .53 .16 .99.99 .99.99 .99.99 .99.99 .99.99 .99.99	E CITY)  TV  MEAN DEG K K 278.555 274.366 275.066 266.644 2615.256 274.1.555 274.1.568 271.664 2615.2568 271.684	TV 9.0. DEG K 9.01 6.37 5.79 5.83 6.14 6.28 5.41 5.42 3.562 6.06 5.77 4.59 4.08 3.63	574030153251635536 .0213050942130504051305	DEWPT 1 MEAN DEC K 272.53 268.70 267.46 262.88 258.04 251.94 245.47 233.51 228.60 224.40 299.99 999.99 999.99 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.54 6.54 99.99 99.99 99.99 99.99 99.99	84 81 35 24 17 17 11 82 - 1 .44 999 .99 999 .99 999 .99 999 .99 999 .99 999 .99 999 .99	1161. 1161. 1238. 1228. 1161. 1118. 1058. 1040. 839. 551. 49. 0. 0. 0. 0. 0.	1161, 1161, 1239, 1239, 1237, 1277, 1277, 1277, 1278, 1233, 1233, 1234, 1235, 1237,
XM .000 1.000 1.000 1.298 2.000 3.000 4.000 5.000 6.000 7.006 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .436 .770 .436 .99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP  MB 2.981 1.649 1.404 1.163 1.022 814 5.23 303 .152 069 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .30 .66 .67 .89 1.15 1.08 .53 1.6 .99.99 .99.99 .99.99 .99.99 .99.99 .99.99	E CITY) TV MEAN DEG K 278.55 274.36 273.04 271.66 266.44 261.24 278.56 241.55 234.56 241.55 234.58 241.69 217.64 215.45 214.81 213.54 211.83 211.83 211.83	TV 9.01 6.37 5.79 5.83 6.14 6.26 5.24 3.50 4.62 6.06 5.77 4.52 4.19 4.23 4.08 3.62 3.31 3.06 3.15	57 40 30 15 32 51 63 55 36 .02 31 .56 .09 42 13 .05 13 04	DEMPT 1 MEAN DEC K 272.53 268.70 267.54 262.68 258.04 251.94 245.47 233.51 228.60 229.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.34 6.54 5.63 5.74 99.99 99.99 99.99 99.99 99.99 99.99	84 81 35 42 24 17 17 17 17 17 17 19	1161. 1161. 1238. 1228. 1161. 1118. 1068. 1070. 839. 551. 49. 0. 0. 0. 0. 0. 0.	1161, 1161, 1238, 1238, 1237, 1237, 1237, 1231, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1233, 1234, 1235,
STATION Z  KM .000 1.000 1.208 2.000 3.000 4.000 5.000 6.000 7.006 8.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.050 19.000 20.000 21.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.294 2.997 2.114 1.336 .770 .936 .933 .131 .082 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP  MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .152 .069 .040 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.08 .53 1.6 .99.99 .99.99 .99.99 .99.99 .99.99 .99.99	E CITY) TV N MEAN K 278.555 279.360 278.566 279.360 266.440 266.20 269.866 241.566 241.566 241.569 241.69 2	TV 9.01 6.37 5.79 5.83 6.14 6.26 5.11 5.42 4.50 6.06 5.77 4.19 4.28 3.50 6.31 4.08 3.31 3.06 3.31 3.05 3.31	574030305163553602315609421305040513160717	DEWPT 1 MEAN DEC K 272.53 268.70 267.54 262.88 258.04 251.94 245.46 233.51 228.60 224.40 999.99 999.99 999.99 999.99 999.99 999.99	OEG K 7,31 5,19 4,78 5,10 6,33 7,45 7,63 7,63 5,63 5,63 5,63 5,99 99,99 99,99 99,99 99,99	84 81 35 42 24 17 11 21 14 19 10	1161: 1161: 1238: 1228: 1151: 1118: 1028: 1050: 8399: 551: 49: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	1161, 1161, 1238, 1238, 1239, 1237, 1237, 1237, 1231,
KM .000 1.000 1.200 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 14.000 15.000 17.000 18.000 19.000 20.000 21.000 21.000 23.000 23.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770336 .731 .082 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP  M8 2.981 1.649 1.404 1.163 1.022 .814 .523 .303 .152 .069 .040 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.10 1.08 .53 .16 .99.99 .99.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99	E CITY)  TV  MEAN K 278.555 274.366 273.666 274.366 274.366 274.366 274.555 234.556 234.566 234.566 234.566 234.566 234.566 234.566 234.566 234.566 234.566 234.566	TV 9.01 6.37 5.79 6.14 6.24 6.14 6.25 6.17 9.06 5.75 9.06 5.75 9.06 9.06 9.07 9.06 9.07 9.08 9.	574030153251635536 .021356 .09421305 .0405140719	DEWPT 1 MEAN DEC K 272.53 268.70 267.54 262.68 258.04 251.94 253.51 228.60 224.40 999.99 999.99 999.99 999.99 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.34 6.54 5.63 5.74 99.99 99.99 99.99 99.99 99.99	84 81 35 42 24 17 17 17 17 17 17 19	1161. 1161. 1238. 1228. 1161. 1118. 1058. 10-0. 939. 551. 49. 0. 0. 0. 0. 0. 0. 0.	1161, 1161, 1238, 1239, 1237, 1237, 1237, 1231, 1233, 1233, 1233, 1231,
STATION Z  KM .000 1.000 1.208 2.000 3.000 4.000 5.000 6.000 7.006 8.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.050 19.000 20.000 21.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.294 2.997 2.114 1.336 .770 .936 .933 .131 .082 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP  MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .152 .069 .040 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.15 1.08 .53 1.6 .99.99 .99.99 .99.99 .99.99 .99.99 .99.99	E CITY) TV N MEAN K 278.555 279.360 278.566 279.360 266.440 266.20 269.866 241.566 241.566 241.569 241.69 2	TV 9.01 6.37 5.79 5.83 6.14 6.26 5.11 5.42 4.50 6.06 5.77 4.19 4.28 3.50 6.31 4.08 3.31 3.06 3.31 3.05 3.31	574030305163553602315609421305040513160717	DEWPT 1 MEAN DEC K 272.53 268.70 267.54 262.88 258.04 251.94 245.46 233.51 228.60 224.40 999.99 999.99 999.99 999.99 999.99 999.99	OEG K 7,31 5,19 4,78 5,10 6,33 7,45 7,63 7,63 5,63 5,63 5,63 5,99 99,99 99,99 99,99 99,99	84 81 81 35 24 17 21 82 - 1 .44 99 .99 99 .99 99 .99 99 .99 99 .99 99 .99 99 .99 99 .99 99 .99 99 .99	1161: 1161: 1238: 1228: 1151: 1118: 1028: 1050: 8399: 551: 49: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	1161, 1161, 1238, 1238, 1239, 1237, 1237, 1237, 1231,
STATION Z  KM000 1.000 1.208 2.000 3.000 4.000 5.000 5.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.050 19.000 20.000 21.000 23.000 24.000 25.000 25.000 26.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770 .936 .939 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP  MB 2.981 1.649 1.163 1.022 .814 .523 .152 .069 .040 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .3c .66 .67 .89 1.19 1.10 .53 .16 .53 .16 .99.99 .99.99 .99.99 .99.99 .99.99 .99.99	E CITY)  TV N  MEA K 278.55  278.56  278.56  278.56  278.56  278.56  278.56  278.56  278.56  278.56  278.56  278.66  2	TV 9.01 6.37 5.83 6.14 6.25 6.14 6.25 4.25 6.06 5.12 6.06 5.12 4.25 6.06 5.12 4.23 4.	5740301532516355360942130509421316071916071916071916071916	DEWPT 1 MEAN DEC K 272:53 268:70 267:58 258:04 251:94 245:46 233:51 228:60 224:40 999:99 999:99 999:99 999:99 999:99 999:99 999:99 999:99 999:99 999:99 999:99 999:99	OEG K 7.31 5.19 4.78 5.10 6.37 7.45 7.63 7.54 6.54 5.63 5.74 99.99 99.99 99.99 99.99 99.99 99.99 99.99	84 81 85 42 17 21 82 - 1 .44 99 .99 99 .99	1161. 1161. 1238. 1228. 1161. 1118. 1028. 1040. 939. 551. 49. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1161, 1161, 1238, 1239, 1237, 1237, 1237, 1231,
KM .000 1.000 1.200 2.000 3.000 4.000 5.000 6.000 7.006 8.000 9.000 11.000 12.000 14.000 14.000 15.000 16.000 17.000 18.050 19.000 20.000 21.000 23.000 24.000 25.000 26.000 27.200	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770336 .770936 .999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP  MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .303 .152 .069 .040 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19 1.10 1.08 .53 .16 1.09 .99.99 .99.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99	E CITY)  TV N  MEAN K  278.555  279.360  271.066	TV 9.01 9.01 6.37 5.78 6.14 6.26 11.42 4.06 5.75 4.19 4.06 3.30 5.75 4.19 4.06 3.30 5.33 4.33 3.33 3.35 3.35 3.35 3.35 3.35	574030153251635536021305094213160719161719161719	DEWPT 1 MEAN DEC K 272.53 268.70 267.262.88 258.04 251.94 253.51 228.60 224.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.34 6.54 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	84 81 81 35 24 17 21 82 - 1 .44 99 .99 99 .99	1161. 1161. 1238. 1228. 1161. 1118. 1028. 10-00. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1161, 1161, 1238, 1239, 1237, 1237, 1237, 1231, 1233, 1234,
XM .000 1.000 1.208 2.000 3.000 4.000 5.000 6.000 7.006 8.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.050 19.000 20.000 21.000 21.000 25.000 25.000 25.000 25.000 26.000	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 7.770 .436 .233 .131 .99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999	PUGNA' 5.0. VP  MB 2.981 1.649 1.163 1.022 814 5.23 .152 .069 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SALT LAK SKEH VP  . 38 . 33 . 36 . 66 . 67 . 89 . 1.15 . 1.08 . 53 . 16 . 999. 99	E CITY)  TV N  DEG K  278.55  273.04  251.66  266.44  251.66  261.55  221.69  217.64  215.42  211.937  211.937  212.84  213.542  211.937  212.85  215.52  216.76	TV 9.01 6.37 5.83 6.14 6.26 6.26 6.24 3.50 4.62 6.07 4.19 4.28 3.50 4.19 4.28 3.50 5.31 5.	574030153251635536 .0231 .56 .09130513160719170012	DEMPT 1  MEAN DEC K 272.53 268.70 267.54 262.68 258.04 251.94 245.47 233.51 228.29 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.34 6.54 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	84 81 81 35 24 17	1161. 1161. 1238. 1228. 1161. 1118. 1028. 107. 1089. 20. 00. 00. 00. 00. 00. 00. 00. 00. 00	1161, 1161, 1239, 1239, 1237, 1237, 1237, 1237, 1238,
KM .000 1.000 1.200 2.000 3.000 4.000 5.000 6.000 7.006 8.000 9.000 11.000 12.000 14.000 14.000 15.000 16.000 17.000 18.050 19.000 20.000 21.000 23.000 24.000 25.000 26.000 27.200	• 725720 VAPOR P MEAN MB 6.520 4.670 4.244 2.997 2.114 1.336 .770336 .770936 .999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	PUGNA' 5.0. VP  MB 2.981 1.649 1.404 1.163 1.022 .814 .523 .303 .152 .069 .040 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999 99.999	Y (SAL1 LAK SKEH VP .38 .33 .30 .66 .67 .89 1.19 1.10 1.08 .53 .16 1.09 .99.99 .99.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99 .999.99	E CITY)  TV N  MEAN K  278.555  279.360  271.066	TV 9.01 9.01 6.37 5.78 6.14 6.26 11.42 4.06 5.75 4.19 4.06 3.30 5.75 4.19 4.06 3.30 5.33 4.33 3.33 3.35 3.35 3.35 3.35 3.35	574030153251635536021305094213160719161719161719	DEWPT 1 MEAN DEC K 272.53 268.70 267.262.88 258.04 251.94 253.51 228.60 224.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99 999.99	OEG K 7.31 5.19 4.78 5.10 6.33 7.45 7.63 7.34 6.54 99.99 99.99 99.99 99.99 99.99 99.99 99.99 99.99	84 81 81 35 24 17 21 82 - 1 .44 99 .99 99 .99	1161. 1161. 1238. 1228. 1161. 1118. 1028. 10-00. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1161, 1161, 1238, 1239, 1237, 1237, 1237, 1231, 1233, 1234,

TABLE	111. 13	MOISTURE	RELATED ST	ATISTICAL	PARAMETERS	, At	NUAL				
STATION	<b>- 725720</b>	DUGHAY	' (SALT LAK	E C:TY)							
Z	VAPOR P	S.D. VP	SKEH VP	TV	TV	SKEH TV	DEMPT T	S.D. OPT	SKEH DPT	NYJES THP	NOBS TV
	MEAN			MEAN	S.D.		MEAN				
KM	MB	MB		DEG K	DEG K		DEG K	DEG K			
.000	10.940	5.336	.86	293.55	15.27	. 22	279.78	7.77	~.63	13967.	13967.
1.000	7.303	3.249	.96	207.15	12.47	. <i>2</i> 6	274.41	6.35	29	13967.	13967.
1.268	6.455	2.878	1.02	285.33	11.91	.25	272.72	5.19	20	14598.	14593.
2.000	4.552	2.172	1.01	261.94	10.42	.02	<i>2</i> 67.85	6.42	19	14187.	14598.
3.000	3.190	1.669	.97	274.80	9.61	06	<b>2</b> 62.9 <b>3</b>	7.02	- 38	13969.	14595.
4.000	2.107	1.309	1.03	267.92	8.58	19	257.14	8.14	<b>3</b> 7	13677.	14595.
<u>5</u> , ლეი	1.276	,978	1.29	26 I 25	7.91	36	250.61	8.78	18	13311.	14595.
6.000	.675	.566	1.78	254.09	7.79	40	243.33	8.51	. 04	12695.	14533.
7.000	. 338	.292	2.39	247.01	7.91	35	236.48	7.60	.11	11665.	14582
8.000	. 187	.151	2.46	233.72	7.74	18	231.21	6.56	.12	8933.	14572.
9.000	.115	.086	2.33	232.41	7.23	.05	227.02	5.95	. 04	4349.	14564.
10 000	.067	.045	1.50	225.71	6.36	.23	222 . 35	5.81	45	1045	14550.
11.000	.043	.021	2.15	220.54	5.62	. 05	218.78	4.25	-1.47	25.	14518.
12.000	<b>99</b> .999	<b>99</b> .999	999.99	217.54	<b>5</b> .35	27	999.9 <b>9</b>	99.99	<b>99</b> 9.99	0.	14481.
13.000	<b>99</b> .599	99.999	£ <b>9</b> 9.99	216.19	4.75	36	999. <b>99</b>	99.99	<b>999</b> .99	0.	144.6.
14.000	99.990	99.999	999.99	214.80	4.31	.03	999.9u	<b>9</b> 9.99	<b>99</b> 9.99	٥.	14400.
15.000	<b>99</b> .999	99.999	999.49	213.15	4.55	.04	999.99	<b>99</b> .99	<b>9</b> 99.99	0.	14343.
16.000	<b>99</b> .999	99.999	999.99	212.08	4.61	01	999 99	<b>3</b> 9.99	<b>99</b> 9.99	0.	1255
17.000	<b>99</b> .999	99.999	999.99	211.99	4.05	~ . 04	999.99	<b>9</b> 9.99	999.99	0.	14190.
18.000	<b>99</b> .999	99.999	999.99	212.54	3.35	15	999. <b>99</b>	<b>99</b> .99	999.99	0.	19068.
19.000	<b>99</b> .999	99.999	992.99	213.51	2.98	40	999.99	<b>93</b> .99	999.99	0.	1395%.
20.000	<b>3</b> 9.999	99.999	999.99	214.52	2.98	54	999. <b>99</b>	99.93	<b>9</b> 99.99	٥.	1 <b>3</b> 807.
21.000	<b>99</b> .999	99.999	939.99	21 <b>5.61</b>	3.17	59	999. <b>99</b>	<b>99</b> .99	999.99	0.	13335.
22.000	99.999	99.999	999.99	216.64	3.42	64	999.99	<b>9</b> 9.99	999.93	٥.	13012.
23.000	99.999	99.439	990.99	217.73	3.68	61	<b>99</b> 9.99	99.99	999.99	О.	12730
24 : 000	<b>99</b> .999	99.999	999.99	219.86	3.96	- 1	<b>99</b> 9.99	99.99	939.9 <b>9</b>	0.	12543.
25.000	<b>9</b> 9.999	99.999	994. <b>99</b>	220.05	4.25	5 <b>5</b>	<b>3</b> 99. <b>99</b>	99.99	993.99	0.	12313.
26.000	99 539	99.999	999.99	221.26	4.54	52	993.99	ac 88	<b>9</b> 99,99	0.	11711.
د. الادع	בבט.בט	99.900	9 <sub>99</sub> . ਖੁਖ਼	822.5 <del>9</del>	4.87	ėr	539 <del>9</del> 9	<del>5</del> 0.13	27.3 147	٥.	:0:01
28.000	99.939	99.999	<b>99</b> 9.99	223.83	5.13	50	999.99	85 83	<b>9</b> 9 33	0.	ا ، وادق
29.000	<b>99</b> 999	99.999	999.99	225.33	5.34	51	999.99	99.99	993.33	0.	<b>8</b> aC3
30 000	99 . S99	99.999	999, 99	227.05	5.45	56	999 99	99.9 <b>9</b>	მმე ცი	٥.	€6:14

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# FEBRUARY

TABLE	1V.1		TIC HODEL A		ABLE.	14. 5		ATIC MODEL	
STATION	- 725720	DUGHA	Y (SALT LAK			- 725720		AY (SALT LA	CE CITY)
Z	GEO. HT.	P	۵	TV	Z	GEO. HT.	P	D	77
KM	KM	HS	G/H3	DEG K	KCH	KM	MB	G/H3	DEC K
. 000	.000	1026.3000		<b>277</b> .07	.000	.000	1022.3000		283.05
1.000	.999	905.4700	1157.0000	273.03	1.000	.999		1137.0000	<i>21</i> 7. <i>2</i> 9
1 288	1.287	874.3400		271.76	1.289	1.297		1104.0000	<b>27</b> 5.5⊬
2.000	1.998	799.4000	1029.0000	<b>27</b> 0.59	2.000	1.998		1022.0000	272.46
3.000	2.997	703.8200	924.1000	265.32	3.000	2.997	704.1000		265.9ä
4.300	3.996	618.1200	627.9000	260.10	4.000	3.996		826.3000	<b>26</b> 0.13
5.000	4.394	541.3400	742.0000	254.15	5.000	4.994		743.4000	253.81
6.000	5.992	472.5600	664 9000	247.59	6.000	5.992	472. <b>6</b> 600	666,9000	246.63
7.000	6.989	410.9800	595.2000	240.55	7.000	6.989		<b>5</b> 97.5000	239.54
0.000	7.986	355.9500	531.3000	233.40	8.000	7.986		533.4000	232.26
9.000	9.983	306.9300	472.4000	226.36	9.000	8.983		<b>47</b> 4.0000	225.21
10.000	9.980	263.5300	416.8000	220.24	10.000	9.960		417.4000	219.40
11.000	10.976	225.4700	363.2000	216.24	11.000	10.976	<b>224.8</b> 700	362.3000	216.24
12.000	11.972	192.5700	311.7000	215.21	12.000	11.972	192.1300	309.6000	<b>216</b> .21
13.000	12.968	164.4700	265 3000	215.97	13.000	12.968	164.2300	263.3000	217.29
14.000	13.963	140.4900	226.9000	215.67	14.000	13.963	140.4100	225.6000	216.82
15.000	14.958	119.9500	194.9000	214.37	15.000	1+.958	119.9700	194.1000	215.37
16.000	15.953	102.3100	167.3000	213.03	16.000	15.953	102.4100	166 6000	214.11
17.000	15.947	87.2130	143.0000	212.45	17.000	15.947	87.3630	142.7000	213 31
18.000	17.941	74.3300	121.9000	212.48	18.000	7.941	<b>74.49</b> 70	121.8000	213 06
13.000	18.935	63.3500	103.7000	212.77	19.000	18.935	63.5300	103.8000	213.31
20.000	19.928		88.2500	213.29	20.000	13.928	<b>5</b> 4 . 1950	88.3000	213.82
21.000	20.922	46.0920	75.0900	213.84	21.000	20.922	46 2510	75.1800	214.3.
22.000	21.914		63.9200	214.40	22.000	21.214	39.4890	64.0300	<b>21</b> → .87
23.000	22.907		54.4500	214.93	23.000	22.907	33.7320	54.5300	215.51
24.000	23.899		46.3500	215.70	24.000	23.899	28.8310	46.4400	216 29
25.000	168. 46	24.5340	39.4800	216.50	25.000	24.891	24.6580	39.56∪0	<b>2</b> 17 12
26.300	25.883		33 6400	217.33	26.000	25.883	21.1030	33.7100	218.08
27.600	26.874		28.6900	219.14	27.CCJ	20.074	18.0750	00.7300	219.1
28.000	27.865		24.4700	219.05	<b>28.0</b> 00	27.865	15.4940	24.5000	220.29
29.000	28.856		20.8600	220 . 28	29.000	20.856	13.2920	20.9100	221.44
20.000	29.846		17.7800	221.74	30.000	29.846	11,4144	17.6500	22213

		MARCH	4				APR	[L	
TABLE	IV. 3	HYDROSTA	ATIC MODEL	ATMOSPHERE,	TABLE	IV. 4	HYDROST	ATIC MODEL	ATMOSPHERE.
STATION			AY ISALT LA			725720	DUGH,	AY ISALT LA	UKE CITY)
7	ŒO. HT.	ρ	D	TV	Z	ŒO. HT.	P	D	TV
KM	KM	MB	G/M3	DEG K	KM	KM	M₿	G/M3	DEG K
.000	.000	1016.4000	1229.0000	288.48	.000	.000	1015.5000		293.21
1.000	. 999		11.7.0000	281.27	1.000	.999		1099.0000	285.45
1.288	1.297		1086.0000	279.21	1.288	1.287		1059.0000	283 34
2.000	1.998		1015.0000	274.51	2.000	1.998	797.4800	998.0000	278 36
3.000	2.997	702. <b>99</b> 00	9:6.8000	267.12	3.000	2.997	704.2300	907.2000	270.43
4.000	3.996	617.7300	825.9000	260.57	4.000	3.996	619.7200	820.3000	263 20
5.000	4,994	541 0600	7+1.9000	254.06	5.000	4.994	543.4860	738,7000	256 30
6.000	5.992	472.2400	665.8000	247.10	6.600 7.000	o.99≥	414.9100	663.E666	200
7.000	6.989	410.5500	596.6000	239.73	7.000	6.989	413.3700	595.3000	∂+1.83
0.000	7.986	355.3700	532.8000	232.37	8.000 9.000	7.986 8.383	358.2900	532.1000	234.57
9.000	ค. 983	306.2300	473.5000	225.33	10.000	9.980	309.1800 265.6800	473 5000 947 3000	227.47
10.000	9.980	262.7900	416.3000	219.73	11.000	10.976	227.5400	417.7000 364.0000	631757 217,77
11.000	10.976	224.8400	361.4000	216.76	12.000	11.972	194.5500	312.8000	215 6+
12.000	11 972	192.1700	309.0000	216.63 217.61	13.000	12.968	166.3200	266 6000	217.30
13.000	12.968	164.3000	263.0000 225.3000	217.26	14.000	13.963	:42.2300	228.0000	217.89
14.000	13.963	140.5200	193.6000	216.11	15.000	14.958	121.5900	195.8000	216 39
15.000	14.958	120.1200	166.2000	215.12	16.000	15.953	103.8900	167.8000	215.5+
16.000	15.953 15.947	87.5980	142.2000	214.64	17.000	16.947	88.7330	143.7000	215.13
17.000 18.000	17.941	74.7720	121.5000	214.41	18.000	17.941	75.7670	122.9000	214.83
19.000	18.935	63.8240	103.7000	214.48	19.000	18.935	64 - 69 30	104.9060	214.67
20.000	19.928	54.4910	69.3600	214.84	20.000	19.928	55.2460	89.4200	215.24
21.000	20.922	46.5400	75.2700	215.40	21.000	20.922	47.2010	76.1900	215.82
22.000	21.914	39.7680	64 . 1400	216.01	22.000	21.914	40.3970	64 9000	216.57
23.000	22.907	33.9990	54.6600	216.69	23.000	22 907	34.5100	55 3000	217.40
24.000	23.899	29.0830	46.6100	217.35	24.000	23.899	29.5370	47.1300	218.32
25.000	24.891	24.8910	39.7500	218.13	25.900	24.891	25.2990	40.1900	219.27
26.000	25.883	21.3180	33.9000	219.10	26.000	25.883	21.6870	34.2700	220.46
27.000	26.874	18.2730	28.9000	220.25	51.000	25.674	18.6060	ათ არიტ	221.05
28.000	27.865	15.6760	24.6600	221.46	28.000	27. <b>8</b> 65	15.9790	24.9500	223.10
29.000	28.856	13.4600	21.0500	222.74	29.000	28.856	13.7380	51.2900	224.74
30.000	29.846	11.5706	17 9500	224.46	30.000	27 846	11.8263	18.1700	226 · 69

MAY						JN	<u> </u>		
TABLE STATION	IV. 5 = 725720		TIC HODEL A		TABLE STATION	IV. 6 = 725720		ATIC HODEL A	
2	GEO. HT.	P	0	TV	7	DEO. HT.	P	D	TV
KH	RDH	MB	G/M3	DEG K	KH	KH	MB	G/M3	CEG K
.000		1010.4000	1182.0000	298.38	.000	.000	1008.5000		303.73
1.000	.999		1077.0000	293. <b>97</b>	1.000	.999		1058.0000	296.37
1.299	1.297		1048.0000	289.02	1.289	1.297		1030.0000	294.47
2.000	1.998	799.1800	978.0000	294.66	2.000	1.998	801.1100	961.2000	290.34
3.000	2.997	707.6900	891 5000	276.62	3.000	<b>2.9</b> 97	711.1000	877.7000	282.23
4.000	3.996	624.4900	809 2000	268.84	4.000	3.996	529.CE00	799.0000	274.28
5.000	4,994	549.1700	731 BOOC	261.41	5.000	4.994	54.5400	724.6000	266.62
6.000	5.992	481.1100	659.3000	254.22	<b>6.00</b> 0	5.992	487.1300	654.2000	253.43
7.000	6.989	419.9200	592.6000	246.88	7.000	6.989	426.3800	588.7000	252.30
8.000	7.986	365.0200	531.2000	239.36	8.000	7.986	371.7700	529.0000	244 84
9.000	9.093	315,0000	ყოს მეეი	231 76	9.000	B.983	322.7700	474.3000	237.08
10.000	9.980	272.1000	421.9000	224 . <b>68</b>	10.000	9.980	278,9300	423.6000	229.42
11.C00	10.976	233.4100	371.2000	219.04	11.000	10.976	239.9600	375.2000	222.82
12.000	11.972	199.6100	322.0000	215.98	12.000	11.972	205.6500	328.2000	219.30
13.000	12.968	170.500J	275.4000	215.70	13.000	12.968	175.8600	283.1000	216.91
14.000	13.963	145.6600	234.7000	216.17	14.000	13.963	150.2300	243.0000	2:5.36
15.000	14.958	124.4500	200.9000	215.82	15.000	14.958	128.2300	208.8000	2:3.95
16.000	15.953	106.2900	172.2000	215.09	16.000	15.953	109.3500	179.0000	212.83
17.000	16.947	90.7460	147.3000	214.60	17.000	16.947	93.2090	152.8000	212.54
18.000	17.941	77.4630	125,8000	214.55	18.000	17.941	<b>79</b> .4670	129.6000	213.27
19.000	18.935	66.1390	107.1000	215.08	19.000	18.935	67.8110	110.0000	21+.83
20.000	19.928	56.50J0	91.1600	215.86	20.000	19.928	57.9340	93.2900	215.34
21.000	20.922	48.3020	77.5500	216.99	21.000	20.922	49.5510	79.2400	217.83
22.000	21.914	41.3290	66.0100	218.13	22.000	21.914	42.4290	67.3800	219.36
23.000	22.907	35.3950	56.2100	219. <b>38</b>	23 000	22.907	36.3720	57.3600	220.91
24.000	23.899	30.3470	47.8900	220. <b>77</b>	2+.000	23.899	31.2150	48.8700	222.50
25.000	24.891	26.0380	40.8200	222.19	25.000	129.45	26.8200	41.6900	254 10
26.000	25.883	22.3670	34,8400	223. <b>66</b>	26.0 <b>00</b>	25.833	23.0700	35.600 <b>0</b>	225 75
27.000	26.874	19.2340	29,7500	225 . <b>26</b>	27.003	25.874	19.8690	30 mãôô	227.43
28.000	27.865	16.5600	25.4200	226 . <b>95</b>	28.000	27.865	17.1290	26.0500	229. <b>09</b>
29.000	28.856	14.2740	21.7400	228.71	29.000	28.856	14.7850	22.3100	230.85
30.000	29.846	12.3193	18 6100	230.55	30.000	29.846	12.7774	19.1300	232.66
		MY					AUGUS	7	
TABLE	IV. 7	HYDROSTA	TIC MODEL A	TMOSPHERE.	TABLE	1V. 8	HYDROSTA	ATIC MODEL A	TMOSPHERE.
	- 725720		Y ISALT LAK			· 725720		Y (SALT LAK	E CITY)
Z	GEO. HT.	P	D	TV	2	Œ0. HT.	P	٥	TV
ĸм	KM	M8	G/M3	DEG K	KM	KM	MB	G/H3	DEG K
.000		1007.4000		309.67	.000	.000	1008.4000	1143.0000	308.03

Z         GEO. HT.         P         D         TV         Z         GEO. HT.         P         D         TV         XM         KM         MB         G/M3         DEG K         XM         MM         MB         G/M3         DEG K         XM         XM         MB         G/M3         DEG K         XM         XM         MB         G/M3         DEG K         XM         XM         MM         MB         G/M3         DEG K         XM         XM         MM         MB         G/M3         DEG K         XM         XM         MB         G/M3         DEG K         MB         G/M3         DEG K         MB         G/M3	DEL ATMOSPHER T LAKE (174)
KM         KM         MB         G/M3         DEG K         XM         KM         MB         G/           .000         .000         1007,4000         1135,0000         309,67         .000         .000         1008,4000         1143,0           1.000         .999         901,0000         1035,0000         302,28         1.000         .999         901,4200         1044,0           1.288         1.267         872,0700         1012,0000         300,22         1.288         1.287         872,3300         1016,0           2.000         1.998         803,8300         945,3000         296,24         2.000         1.998         803,7400         949,7           3.000         2.997         715,2200         865,0000         288,04         3.000         2.997         714,740         868,6           4.000         3.996         634,2200         790,3000         279,55         5.000         4.994         559,4000         721,0           5.000         4.994         560,3500         719,9300         271,15         5.000         4.994         559,4000         721,0           6.000         5.992         493,2800         651,7000         263,67         7.000         6.989 <t< th=""><th></th></t<>	
.000         .000         1007.4000         1135.0000         309.67         .000         .000         1008.4000         1143.0           1.000         .999         901.0000         1038.0000         302.28         1.268         1.267         872.3300         1018.00           1.288         1.267         872.0700         1012.0000         300.22         2.000         1.998         803.7400         949.72           2.000         1.998         803.8300         945.3000         296.24         2.000         1.998         803.7400         949.7           3.000         2.997         715.2200         865.0000         288.04         3.000         2.997         714.7400         868.6           4.000         3.996         634.2200         790.3000         279.55         5.000         4.994         559.4000         721.0           5.000         4.994         560.3500         719.9300         271.15         6.000         5.992         492.2800         651.0           6.000         5.992         493.2650         651.7000         263.67         7.000         6.989         431.7600         596.59           8.000         7.986         378.3000         527.5000         249.83         8.000 <th>M3 DEGK</th>	M3 DEGK
1.000	000 308.03
1.288       1.267       872.0700       1012.0000       300.22       1.288       1.267       872.3300       1018.0         2.000       1.998       803.8300       945.3000       296.24       2.000       1.998       803.7400       949.7         3.000       2.997       715.2200       865.0000       288.04       3.000       2.997       714.7400       868.6       868.6       868.6       633.4400       792.8       83.4400       792.8       855.000       4.994       559.4400       721.0       792.8       792	
2.000 1.998 803.8300 945.3000 296.24 2.000 1.998 803.7400 949.7 3.000 2.997 715.2200 865.000 288.04 3.000 2.997 714.7400 868.6 4.000 3.996 634.2200 790.3000 279.55 5.000 4.994 559.4000 792.8 5.000 4.994 559.4000 271.15 5.000 4.994 559.4000 721.0 6.000 5.992 493.2800 651.7000 263.67 7.000 6.989 432.7500 586.8000 256.92 7.000 6.989 432.7500 586.8000 256.92 8.000 7.986 377.3500 527.2 8.000 7.986 377.3500 527.2 8.000 7.986 377.3500 527.2 8.000 8.983 328.4900 473.4000 242.43 9.000 8.983 328.4900 473.13000 9.980 285.6300 423.5000 234.96 11.000 9.980 289.7200 423.35	000 298.65
3.000 2.997 715.2200 865.0000 288.04 3.000 2.997 714.7400 868.6 4.000 3.996 634.2200 790.3000 279.55 5.000 4.994 559.4000 721.0 5.000 4.994 560.3500 719.9300 271.15 5.000 4.994 559.4000 721.0 6.000 5.992 493.2800 651.7000 263.67 7.000 6.989 431.7600 586.5 7.000 6.989 432.7500 586.8000 256.92 8.000 7.986 377.3500 527.2 8.000 7.986 378.3000 527.5003 249.83 9.000 8.983 328.4900 473.400 9.000 8.983 329.4230 473.4000 242.43 9.000 8.983 328.4900 473.13 13.000 9.980 285.6300 423.5000 234.96 11.000 9.980 284.7200 423.3	294.84
4.000     3.996     634.2200     790.3000     279.55     4.000     3.996     633.4400     792.8       5.000     4.994     560.3500     719.900     271.15     5.000     4.994     559.4400     721.0       6.000     5.992     493.2800     651.7000     263.67     7.000     6.992     492.2800     651.700     596.92       7.000     6.999     432.7500     586.8000     256.92     8.000     7.986     377.3500     527.2       8.000     7.986     378.3000     527.5000     249.83     9.000     8.983     328.4900     473.1       9.000     8.983     328.4900     473.4000     242.43     9.000     8.983     328.4900     473.1       13.000     9.980     285.6300     423.5000     234.96     11.000     10.936     284.7200     423.5	285.66
5.000         4.994         559.4000         721.0           5.000         4.994         559.4000         721.0           6.000         5.992         493.2800         651.7000         263.67         6.000         5.992         492.2800         651.700           7.000         6.989         432.7500         586.8000         256.92         8.000         7.986         377.3500         527.2           9.000         8.983         328.3000         527.5000         249.83         9.000         8.983         328.4900         473.11           13.000         9.980         285.6300         423.5000         234.96         11.000         10.936         295.8900         245.800	279.33
6.000 5.992 493.2800 651.7000 263.67 7.000 6.989 431.7600 651.8 7.000 6.989 432.7500 586.8000 256.92 7.000 6.989 431.7600 586.96 8.000 7.986 378.3000 527.5000 249.83 9.000 8.983 328.4900 473.10 9.000 8.983 329.4200 473.4000 242.43 9.000 8.983 328.4900 473.11 13.000 9.980 285.6300 423.5000 234.96 11.000 9.980 884.7200 423.3	270.30
7.000 6.989 432.7500 586.8000 256.92 7.000 6.989 431.7600 596.5 8.000 7.986 378.3000 527.5000 249.83 9.000 8.983 328.4900 473.40 9.000 8.983 329.4200 473.4000 242.43 9.000 8.983 328.4900 473.43 10.000 9.980 285.6300 423.5000 234.96 11.000 10.936 245.6300 423.53	30 <b>2</b> 63.12
8.000 7.986 378.3000 527.5000 249.83 9.000 7.986 377.3500 527.2 9.000 8.983 329.4200 473.4000 242.43 9.000 8.983 328.4900 473.11 13.000 9.980 285.6300 423.5000 234.96 11.000 10.976 245.6300 423.53	256.46
9.000 6.983 329.4200 473.4000 242.43 9.000 8.983 328.4900 473.11 10.000 9.980 285.6300 423.5000 234.96 11.000 10.936 284.7200 423.3	000 <i>2</i> 49.35
13.000 9.980 285.6300 423.5000 234.96 10.000 9.980 284.7200 423.3	88.11/5 000
10.000 10.976 245 6900 376 7	000 P74.32
11 000 10 076 246 5500 377 1000 PP/.//	91,755 000
12.000 11.972 211.0800 332.50	221.13
17,000 12,059 191 4100 292 0000 216.45	00 215.50
17 DOS 17 DOS 150 DODO 250 1000 212 20 14.000 13.963 154.2100 252.70	100 212 57
15 000 th 059 131 7200 219 6000 209.00 15.000 14.958 131.2700 219.20	10 <b>0</b> 209,62
15,000 15,953 111,9100 187,5000 207,93 16,000 15,953 111,5800 186,40	
17,000 15,047 95,0880 158,4000 209 16 17,000 16,947 94,8430 157,70	00 209.51
19.000 17.941 80.7150 132.90	00 211.60
10,000 18,935 68,0010 112,2000 214,16 19,000 18,935 68,8170 111,90	00 214 16
70,000 10,000 50,0170 94,9100 216,25 20,000 19,929 58,7750 94,71	00 216.18
21.000 20.922 50.2720 80.31	00 218.05
22,000 21,914 43,1690 68,3800 219,91 22,000 21,914 43,0530 68,30	
27 000 22 907 37 0220 58 2200 221.54 23.000 22.907 36.9120 58.17	
24.000 23.899 31.5830 49.60	
25,000 24,891 27,3291 42,3600 24,68 25,000 24,891 27,2190 42,33	
25,000 25,5100 35,2000 226,23 25,400 25,883 23,4100 36,17	
27,000 26,874 20,2530 30,9600 227,92 27,000 25,074 20,1550 30,94	
29,000 27,865 17,4660 26,5200 229,46	
29 000 29 856 15 0780 22 7400 271.01 29.000 29.856 14.9830 22.72	
30.000 29.846 13.0314 19.5100 232.68 30.000 <b>29.8</b> 46 12.9374 19.50	00 231.11

		ACCO2	• • • • • • • • • • • • • • • • • • • •	
TABLE	1V. 8	HYDROST	ATIC MODEL	ATMOSPHERE,
STATION	<ul> <li>725720</li> </ul>	DUGH		
2	OEO. HT.	P	D	TV
КM	KM	MB	G/M3	DEG K
. 000	.000	1008.4000	1143.0000	308.03
1.000	. 999	901.4200	1044.0000	300.7₩
1.288	1.297	<b>872.3</b> 300	1018.0000	<i>2</i> 98.65
2.000	1.998	803.7400	949.7000	294.84
3.000	2.997	714.7400	868.600 <b>0</b>	285.66
4.000	3.996	633.4400	792.8000	279.33
5.000	4.994	559.4000	721.0000	270.30
6.000	5.992	492.2800	<b>6</b> 51.8000	263.12
7.000	6.989	431.7600	596.5000	<i>2</i> 56.4 <b>6</b>
8.000	7.986	377.3500	527.2000	<i>2</i> ∙9.35
9.000	8.983	328.4900	473.1000	21.1.88
10.000	9.980	284.7200	423.3000	2₹4.3 <b>2</b>
11.000	10.976	245.6800	375.7000	a27.19
12.000	11.972	211.0800	332.5000	221.13
13.000	12.968	180.6900	290.7000	215.50
14.000	13.963	154.2100	252.7000	212 57
15.000	14.958	131.2700	218.2000	209.62
16.000	15.953	111.5800	185.4000	206 55
17.000	16.947	94.8430	157.7000	<b>2</b> 09.5)
18.000	17.941	80.7150	132.9000	211.60
19.000	18.935	68.8170	111.9000	214 16
20.000	19.929	58. <i>7</i> 750	94.7100	216.18
21.000	20.922	50.2720	80.3200	218.05
22.000	21.914	43.0530	68.3000	219.59
23.000	22.307	36.9120	58.1700	<b>2</b> 21.06
24.000	23.899	31.5930	<b>49.6000</b>	<b>2</b> ≥2 50
25.000 26.000	24.891	27.2190	42.3300	223.38
27.000	25.883	23.4100	36.1700	225.44
28.000	28.074	20.1550	20.0400	i. ⊳. <b>∋</b> ū
29.000	27.865 23.856	17.3690	26.5100	200.20
30.000	29.846	14.9830	22.7200	229.68
JU . UUU	E3.846	12.9374	19.5000	231 11

TABLE	IV. 9		ATTC MODEL		TABLE	IV. 10	HYDROST	ATIC HODEL	ATHOSPHERE.
	• 725720		AY (SALT LA			• 725720	DUGH	AY (SALT LA	KE CITY)
Z	ŒO. HT.	ρ	D	TV	Z	ŒO.H∴,	P	O	tv
KM	KM	HB	G/M3	DEG K	KM	KM	MB	G/H3	DEG K
.000	. 000	1011.6000		301.82	. 000	.000	1016.9000	1209.0000	293.36
1.000	.999		1366.0000	294.94	1.000	.999	904.2300	1095.0000	287.75
1.299	1.297		1038.0000	292.96	1.298	1.281	<b>8</b> 73. <i>7</i> 700	1064.0000	286.11
2.000	1.998	805 6900	966.0000	289.48	5.000	1.998	<b>8</b> 02 . 2900	986.4000	263.34
3.000	2.997	712.2900	380.9000	281.68	3.000	2.997	710.2000	895.100 <b>0</b>	276.40
4.000	3.996	630 0000	801.0000	273.9 <del>9</del>	₩.000	3.996	625.8300	809.0000	269.92
5.000	4.994	555.3600	725.1600	266.83	5.000	4.994	551.6100	729.1000	263.57
6.000	5.992	487.9500	653.6000	260.09	6.000	5.992	483,8800	656.200 <b>0</b>	£56.87
7.00 <b>0</b>	6.989	<b>427.2</b> 70 <b>0</b>	588.0000	253.14	7.000	6.989	422.9700	590.0000	249.75
8.000	7.986	372.7300	528.4000	245.75	8.000	7.986	368.2800	529.5000	242.28
3.000	9.983	323.7800	473.760 <b>0</b>	239.12	9.000	8.383	319.2700	473.9000	234.70
10.000	9.980	580.0100	422.9000	230.65	10.000	<b>9.9</b> 83	275.5300	422.0000	227.44
11.000	10.976	241.0900	374.5000	224.26	11.000	10.976	236.7600	372.4000	231.45
12.000	11.972	206 8300	327.9000	219.72	12.000	11.972	202.7400	325.1000	217.22
13.000	12.968	176.9700	284.6000	216 62	13.000	12.968	173.1900	281.0000	214.68
14.000	13.963	151 1100	246.2000	213.77	19.000	13.963	147.7200	241.9000	212 72
15.000	14.958	128.7800	212.2000	211.41	15.000	14.958	125.8100	207.9000	213.79
16.000	15.953	109.6000	181.700 <b>0</b>	210.15	16.000	15.953	107.0300	177.9000	209.65
17.000	16.947	93.2530	154.4000	210.40	17.000	16.947	91.0270	151.1000	209.86
18.000	17.941	79.3660	130.6000	211.49	18.000	17.941	77.4500	128.1000	210.66
19.000	18.935	67,6570	110.5000	213.23	19.000	18.935	65.9510	108.5000	211 60
20.000	19.928	57.7380	93.5900	214.92	20.000	19.928	56.2120	91.9300	213.00
21.000	50.922	49.3340	79.3900	216.48	21.000	20.922	47.9590	77.9500	214.34
22.000	21.914	42.2010	67.4600	217.92	22.000	21.914	40.9570	66.2100	215 49
23.000	22.907	36.1410	57.3690	219.49	23.000	22.907	35.0090	56.2800	216.70
24.000	23.899	<b>30</b> .9860	48.8400	221.03	24.000	23.899	29.9530	<b>47.8</b> 500	217.92
<i>2</i> 5 . 00 <b>0</b>	24.891	26.5940	41.6500	222.44	25.000	24.891	25.6500	40.8000	219.02
26.000	25.883	22.8480	35.5500	223.64	26.000	25.883	21.9830	34.7800	220 19
27.000	26.874	19.6490	30.3900	225.21	27.00 <u>0</u>	25, 874	18.8570	50 6000	771 73
28.000	27. <b>8</b> 65	16.9140	26.0300	226 . <b>38</b>	20.000	27.865	16.1970	25.3700	232 <b>27</b>
29.000	20.65 <b>6</b>	14.5710	25 3000	227.61	29.000	28 856	13.9060	21.7000	223.29
30 000	29-845	12.5639	19.1300	228.79	30.000	50.846	11.9556	16 5700	224.30

### NOVEMBER

TABLE IV. 11 STATION = 725720			DECEMBER						
STATION	- 725720	DUGWA	AY (SALT LA	KE CITY)		IV. 12 • 725720	DUGH	ATIC HODEL . AY (SALT LA	KE C.TYY
			-		Z	Œ0. HT.	P	D	τ,
					KM	KM	M.8	G/M3	ELG K
					.000	.000	1025 2000	1284.0000	274,55
					1.003	.999	906.1000	1151.0000	27- 34
					1.288	1.287	874.1300	1115.0000	273.54
					3.000	1.998	739.5200	1025.0000	271.66
					3.000	2.997	704.2900	920.9000	2000
					4.000	3.996	618.8700	825.4000	26: "J
				258.23	5.000	+.994	542.3100	740.2000	255 24
				251.69	6.00u	5.93∂	7:3.6.00	603.5c.J	ويواد والمحاد
					7.000	6.999	412.1700	594.4000	ĉ+1.5 <u></u> 5
					8.000	7.986	357.2000	530.8000	23+ 45
					9.000	6.983	308.2400	471.8000	201.58
					10.000	9.980	264.8900	416.3000	221.69
					11.000	10.976	226.8700	353.1000	217 (+
				215.94	12.000	11.972	193.9100	313.0000	215.84
					13.000	12.968	165.6100	267,6000	215.45
					14.000	13.963	141.4000	229.3000	214 8;
					15.000	14.958	120 6500	196 8000	213 50
	_				16.000	15.95 <b>3</b>	102.8500	168,7600	212 42
17.000	16.947	88.7000	145.7000	210.69	17.000	16,547	87 6330	144 1303	211 53
18.000	17.9+1	75.5030	124.7000	210.96	18.000	17.941	74.6490	122,6000	211 12
19.000	19.935	64 . 2930	106.0000	211.35	19.000	18.935	63.5940	104.5600	211 93
20.000	19.928	54.7620	90.0500	211.85	20.000	19.928	54, 1930	89.8900	212.37
51.000	50.955	46.6690	76.5000	212.52	21.000	20.922	46.1900	75.6200	212.89
2.3 . DQ <b>Q</b>	21.914	<b>39</b> .7990	64.9800	213.36	22.000	2 .914	39.4010	64 3200	213 40
23.000	22.907	33.9620	55 2000	214.34	53 000	22.907	33.6190	54.7500	213.67
24.000	23.899	29.0050	46.9200	215.36	24.000	23.899	28.6980	46.6100	214.51
25.000	24.891	24.7900	39.9400	216.24	25.00 <b>0</b>	24.831	2+.5090	39.7100	215.00
26.000	25.883	51.202 <b>0</b>	34.0200	217.08	ë6. <b>000</b>	25.833	20.9400	33.8500	215.52
27.000	26 874	18.1460	28.9900	218.02	27 <b>00</b> 0	25.874	17.8990	28.8600	216 00
28.000	27.865	15.5400	24.7500	218.74	28.000	27.865	15.3070	24.5000	216.76
58 000	29.856	13.3160	21.1200	219.65	29.000	<i>2</i> 8.856	13.0980	20.9800	217.53
30.000	29 84 <b>6</b>	11.4194	18.0300	220.5 <del>8</del>	30.000	<i>2</i> 9 846	11.2160	17 9930	2:6.5+

## ANNUAL

TABLE	IV. 13	HYDROSTA	ATIC HODEL AT	MOSPHERE.
STATION	<b>- 725720</b>	DUGH	AY ISALT LAK!	
Z	ŒO. HT.	₽	٥	17
KPI	KM	HØ	G/M3	DEG K
. 000	.000	1015.6000	1209.0000	293.55
1.000	.999	902.8900	1095.0000	287.15
1.286	1.287	872.4100	1065.0000	285.33
2.000	1.998	800.7700	989.470D	291.94
3.000	2.997	708.4000	898,1000	274.80
4 . COU	3.596	624.7200	812.3000	267.92
5 000	4.994	549.1400	732.9000	261.02
6.000	5.992	481.0600	659.60 <b>00</b>	254 . 09
7.500	6.989	419.8900	592.2000	247.01
8.000	7.986	365.0400	530.5000	239.72
9.000	8.983	316.0000	473.7000	232.41
10.000	9.980	272.3500	420.3000	205.71
11.000	10.976	233.8200	369.300 <b>0</b>	220. <del>54</del>
12.000	11.972	200.1800	320.6000	217 54
13.003	12.968	171.1200	275.7000	516.19
14.000	13.963	146.1400	237.0000	ĉ 14.80
15.000	14 958	124.6800	203.6000	213.15
16.000	15.953	106.2600	174.5000	2:2.08
17.000	16.947	SJ. 5290	148.8000	211 99
18 000	17.941	77.1450	:26.4000	212 54
19.000	18.935	65.7800	107.3000	213.51
20.000	19.928	56.1330	91.1600	214.52
21.000	20.922	47.9410	77.4600	215.61
22.000	21.914	40.9780	65.8900	216.64
23.J00	22.907	35.0550	56.0900	217.73
24.000	23.899	30.0130	47.7700	218 86
25.000	24 831	25.7190	<b>₩0.7100</b>	220.06
26.000	25.883	22.0590	34.7300	85.155
27.060	₫Ġ.67+	18.9370	C3.5-65	בכר אצ
28.007	27.865	16.2720	25.3200	223 83
29.00C	29.856	13.9950	21.6400	225 33
30.000	29.846	12.0514	18 4900	<i>€2</i> 1.05

### APPENDIX A

# EXAMPLES OF WIND STATISTICS FOR DUGWAY, UTAH (Data base is from Salt Lake City, Utah)

Appendix A gives some examples of further computations and graphical displays of wind statistics that can be derived from the statistical parameters presented in table I. These illustrations should aid the user of the RRA to understand the functional relationships of the probability wind models and, thus, to develop an appreciation of the powerful properties of the bivariate normal probability distribution function (PDF).

All illustrations for this appendix are derived from the five wind component statistical parameters from table I.1 for January and table I.7 for July for nine selected altitudes. These selected altitudes are  $2,\,4,\,8,\,12,\,16,\,20,\,24,\,28,\,10$  and  $30\,\,\mathrm{km}$ .

# 1. Windspeed (Tables A-1 and A-2)

The five wind components from table I are used as inputs to the generalized Rayleigh PDF, equation (29), and numerically integrated as indicated by equation (30) to obtain the PDF for windspeed. The PDF is then interpolated to obtain the percentile values for windspeed, as shown in tables A-1 and A-2.

## 2. Frequency of Wind Direction (Figures A-1 through A-18)

The derived frequencies for wind direction shown in figures A-1 through A-18 were obtained using the five wind component parameters from tables I.1 and 1.7 as input values in equation (35). The limits of integration (performed numerically) are over the 22.5-degree interval for each of the 16 compass points. These graphs give the percentage frequency that the wind will blow from the direction intervals.

# 3. Mean Wind Components and 80th Interpercentile Range of Wind Components (Figures A-19 through A-36)

The wind component means with respect to any orthogonal axes are obtained by using the zonal and meridional mean wind components in equations (44) and (45). These component means form the circle shown in figures A-19 through A-36. Further, the zonal and meridional wind component variances and correlation coefficients are used in equations (46) and (47) to obtain the variances with respect to any orthogonal axes. These rotated component variances and the rotated component means are used in equation (8) to obtain the 80th interpercentile range of wind components and are then illustrated in figures A-19 through A-36.

# 4. Probability Ellipses (Figures A-37 through A-54)

Using the five wind component parameters from tables I.1 and 1.7 and p = 0.50, p = 0.95, and p = 0.99 as input values to equation (13), the wind

probability ellipses shown in figures A-37 through A-54 were obtained by computer graphics. The statistical inferences are, for example, that 50 percent of the wind vectors lie within the smaller ellipse and 99 percent of the wind vectors lie within the outer ellipse. These probability ellipses are illustrated using the standard meteorological coordinate system explained in section I.B.1.

# 5. Conditional Windspeed Given the Wind Direction (Figures A-55 through A-72)

The five wind component parameters from table I.1 and table I.7 are used to evaluate the conditional PDF, equation (41). Interpolations of the conditional function are made to obtain the 5th, 15th, 50th (median), 85th, 95th, and 99th conditional percentile values of windspeed given the wind directions, are as shown in figures A-55 through A-72. The conditional mean windspeed, given the wind direction, is obtained from equation (40). The conditional mode (most probable) windspeed, given the wind direction, is obtained from equation (38). The conditional mean windspeed and the conditional windspeed modal value, given the wind direction, are also shown in these figures. For some figures, the conditional windspeed values are invalid for the given wind direction near 270° (from the west). This is caused by the lack of computational precision in evaluating equations (40) and (41) when the arguments for the Gaussian probability distribution have large negative values, i.e., when the coefficients (b/a) become less than -4 in these equations.

This appendix contains only a few of the many options in presenting wind statistics illustrations.

TABLE A-1. DERIVED (RAYLEIGH) PERCENTILES FOR WINDSPEED, JANUARY, DUGWAY, UTAH

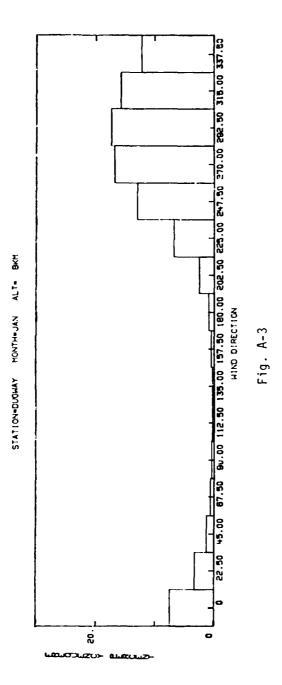
Altitude (km)									
	2	4	8	12	16	20	24	28	30
	R	R	R	R	R	R	R	R	R
*	M/S	MIS	M/S	M/S	M/S	M/S	MIS	M/S	M/5
1.0	.60	1.45	3.14	3.56	3.19	1.14	1.21	1.61	2.42
2.5	1.16	2 - 38	5.01	5.66	4.96	1.85	2.02	2.62	3.92
5.3	1.67	3.42	7.12	8.04	6.79	2.63	2.84	3.77	5.57
10.0	2.42	4.94	10.20	11.39	9.21	3.78	4.07	5.39	8.02
15.7	3.03	6.12	12.65	14.02	10.97	4.67	5.03	6.69	9.98
20.0	3.51	7.16	14.81	16.27	12.40	5.45	5.85	7.83	11.70
31.0	4.42	9.01	18.68	20.22	14.81	6.83	7.33	9.88	14.84
40.0	5.27	10.73	22.31	23.80	16.91	8.10	8.71	11.81	17.83
50.0	6.12	12.45	25.92	27.28	18.90	9.36	10.10	13.77	20.85
60.0	7.04	14.24	29.73	30.85	20.91	10.68	11.59	15.89	24.09
70.0	8.13	16.23	33.98	34.77	23.08	12.16	13.31	18.34	27.79
80.0	9.54	18.64	39.16	39.43	25.64	13.95	15.49	21.48	32.41
85.0	10.47	20.15	42.43	42.33	27.22	15.10	16.92	23.56	35.41
95.0	11.71	22.07	46.62	46.01	29.21	16.59	19.84	26.33	39.33
95.0	13.67	24.97	52.94	51.53	32.18	18.82	21.88	30.70	45.47
97.5	15.45	27.55	58.53	56.34	34.77	20.81	24.68	34.69	51.05
99.0	17.59	30.55	65.08	61.97	37.78	23.14	28.01	39.49	57.82

TABLE A-2. DERIVED (RAYLFIGH) PERCENTILES FOR WINDSPEED, JULY, DUGWAY, UTAH

				Alt	itude (km)	)			
	2	4	8	12	16	20	24	28	3.5
	þ	R	R	Þ	R	Ē.	R	Ŗ	R
1	M/S	4/5	M/S	M/S	4/5	M/S	M/S	M/S	M/S
1.3	.72	.78	2.01	3.75	1.31	.49	4.35	7.05	8.27
2.5	1.27	1.32	3.15	5.86	2.16	1.07	5.19	A.01	9.31
5.7	1.88	1.99	4.43	8.11	3.09	1.46	5.93	8.78	10.23
10.0	2.70	2.82	6.24	11.11	4.35	2.14	6.68	9.72	11.26
15.0	3.38	3.48	7.61	13.31	5.34	2.59	7.24	10.35	12.30
20.0	3.99	4.09	9.77	15.13	6.19	3.02	7.66	10.89	12.52
30.0	5.09	5.13	10.76	18.21	7.65	3.67	8.37	11.70	13.43
40.0	6.18	6.10	12.54	20.91	8.97	4.28	9.00	12.42	14.22
50.0	7.31	7.05	14.26	23.49	10.25	4.85	9.55	13.09	14.94
60.0	8.53	8.03	16.00	26.10	11.56	5.44	10.12	13.75	15.67
70.0	9.91	9.13	17.91	28.93	12.99	6.05	10.73	14.47	16.46
80.3	11.6	10.46	20.18	32.28	14.71	5.81	11.45	15.30	17.37
85.0	12.67	11.29	21.60	34.36	15.78	7.28	11.86	15.81	17.90
90.0	13.98	12.35	23.39	36.97	17.13	7.85	12.45	16.47	19.64
95.3	15.98	13.93	26.04	40.89	19.16	8.74	13.24	17.43	19.59
97.5	17.76	15.36	28.40	44.32	20.93	9.51	13.91	18.24	20.60
99.3	19.90	16.97	31.12	48.31	23.00	10.38	14.78	19.19	21.66



Fig. A-2



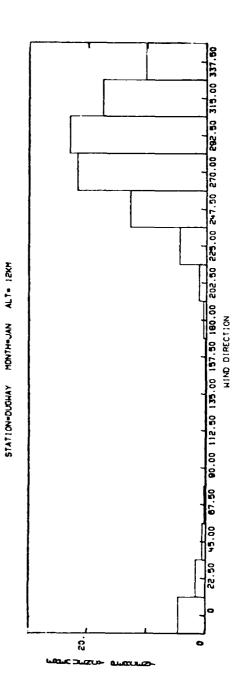
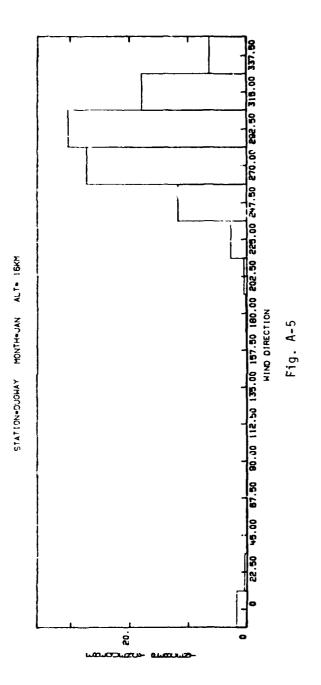
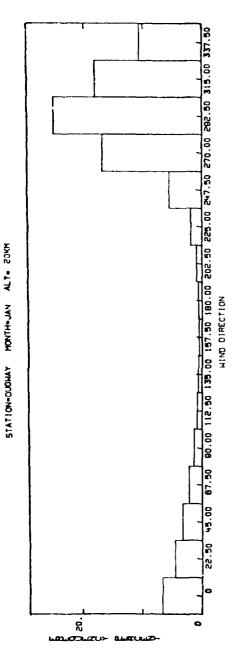
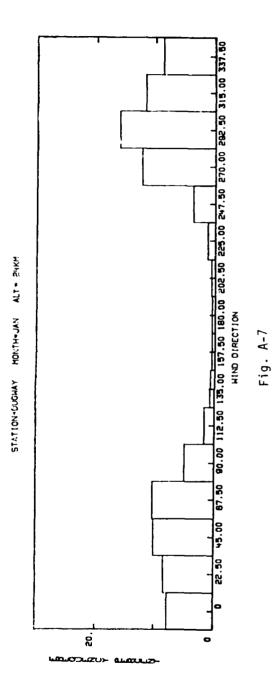


Fig. A-4







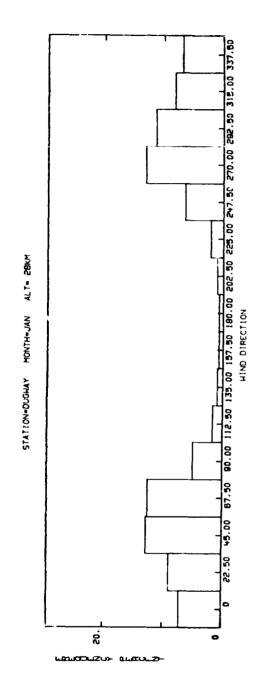
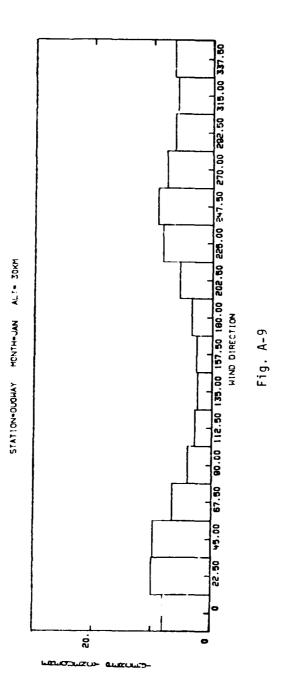


Fig. A-8



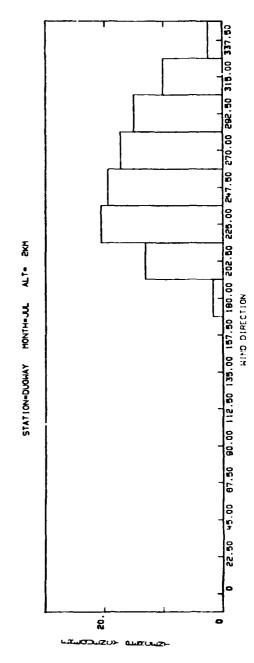
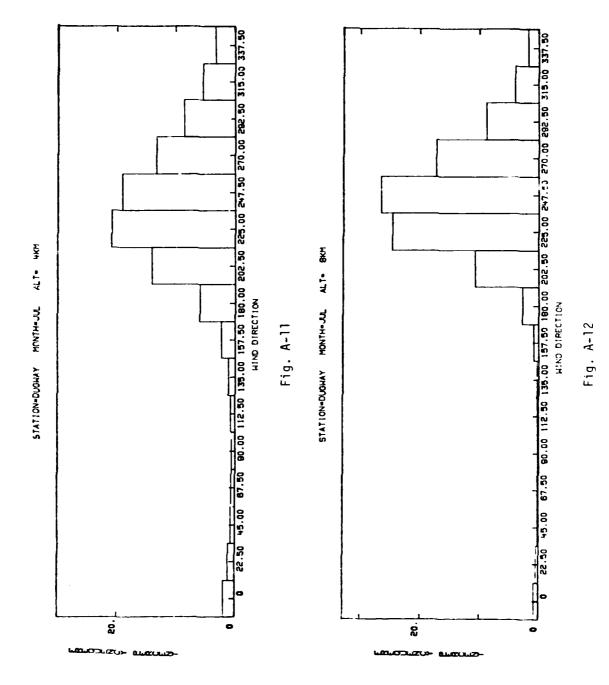


Fig. A-10



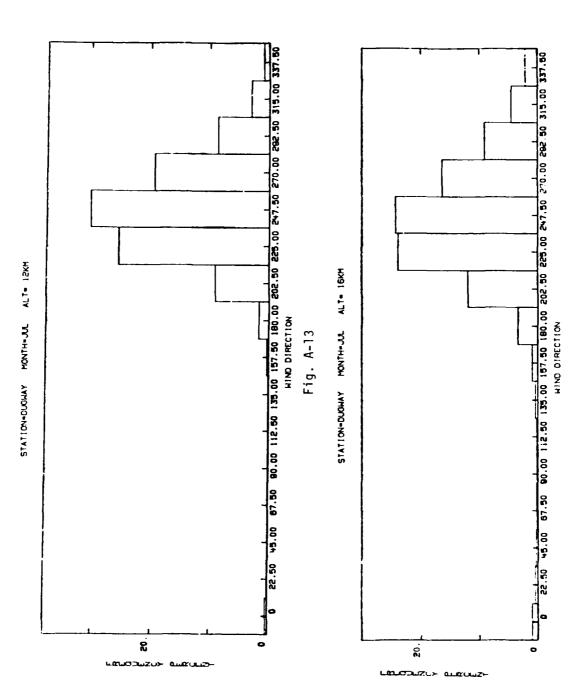
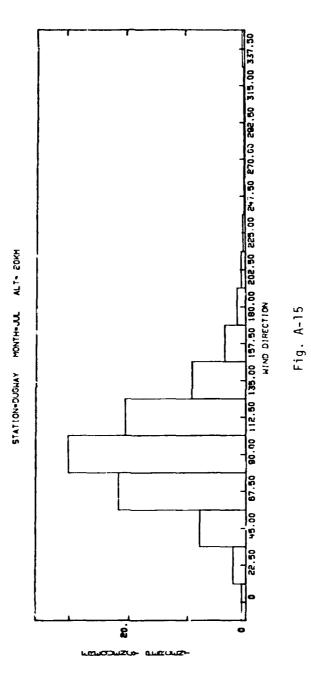
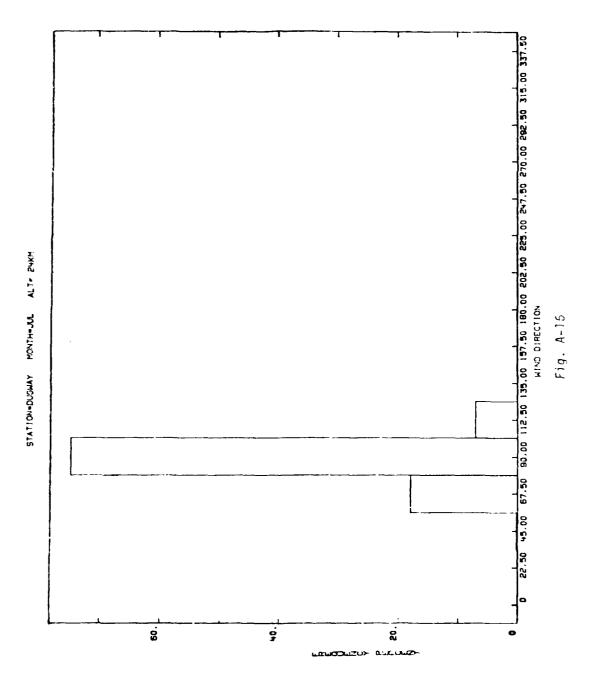
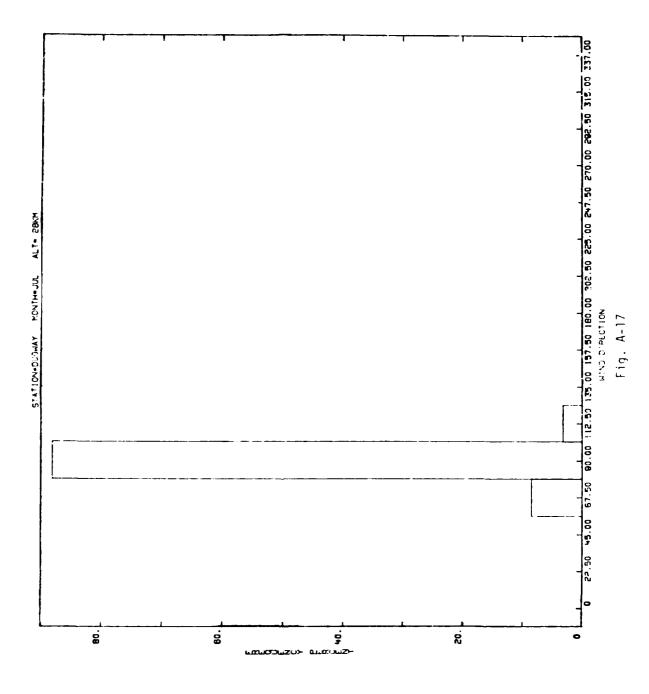


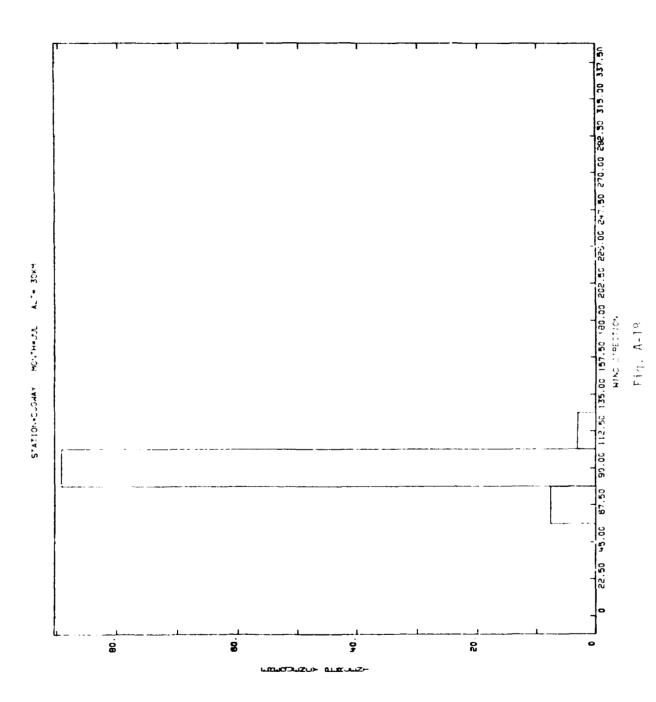
Fig. A-14

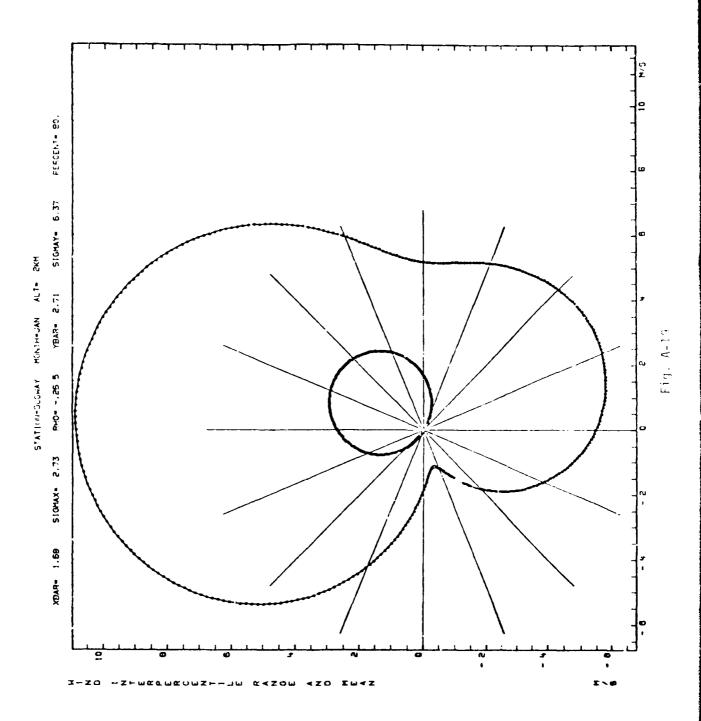
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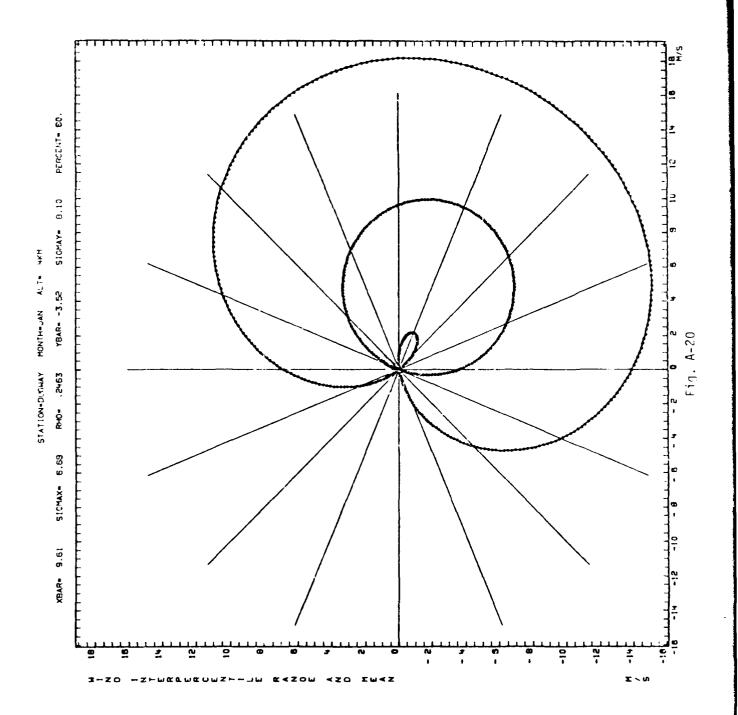


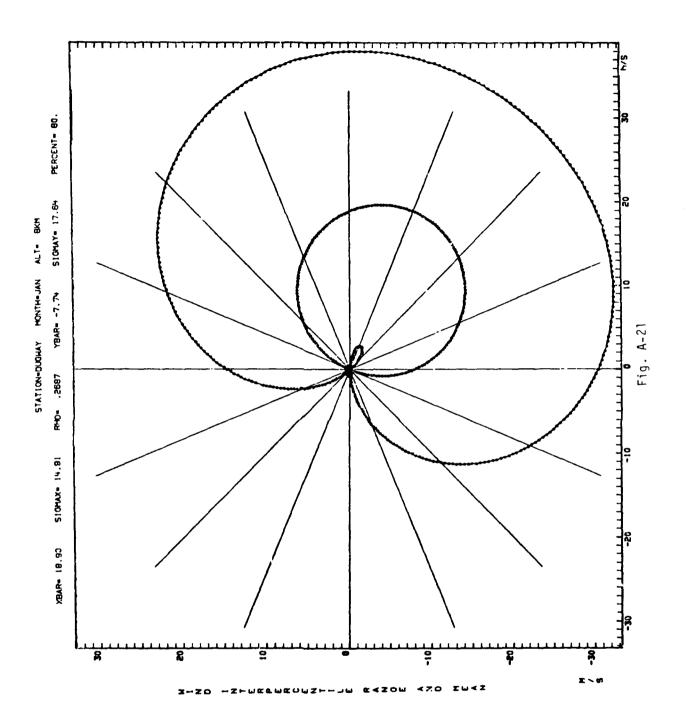


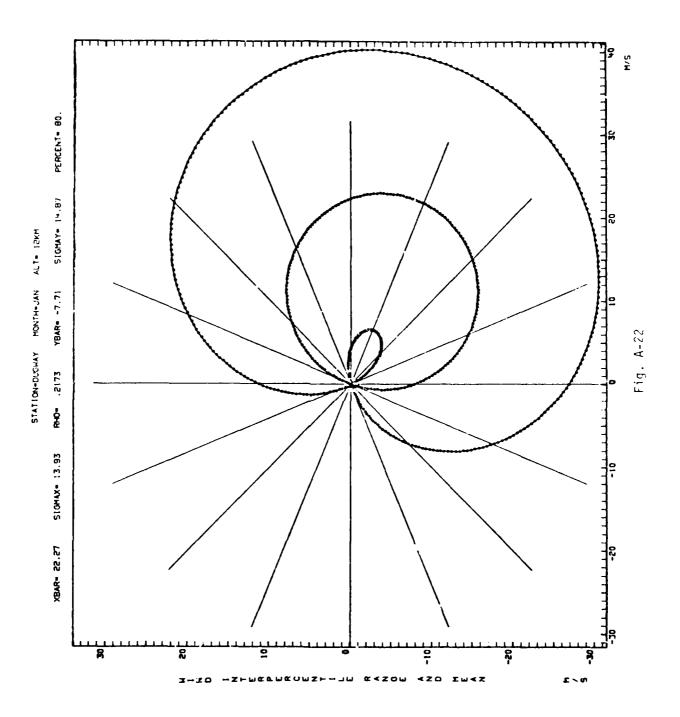


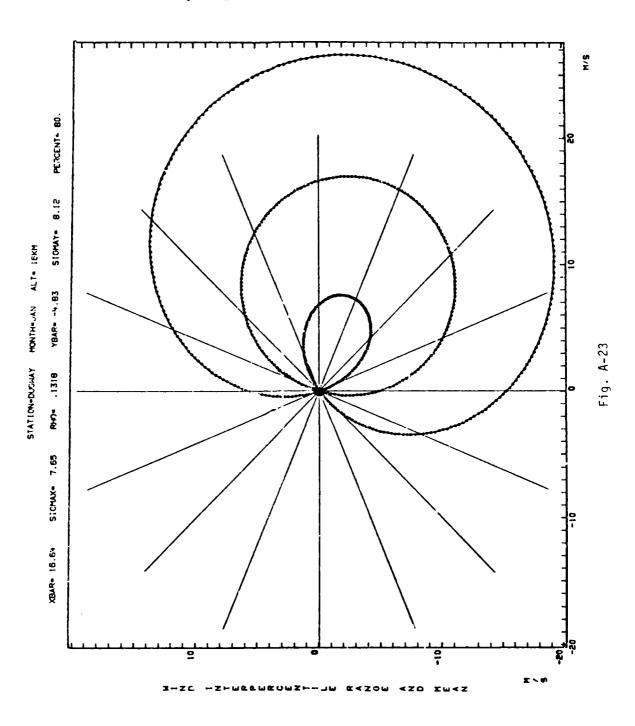


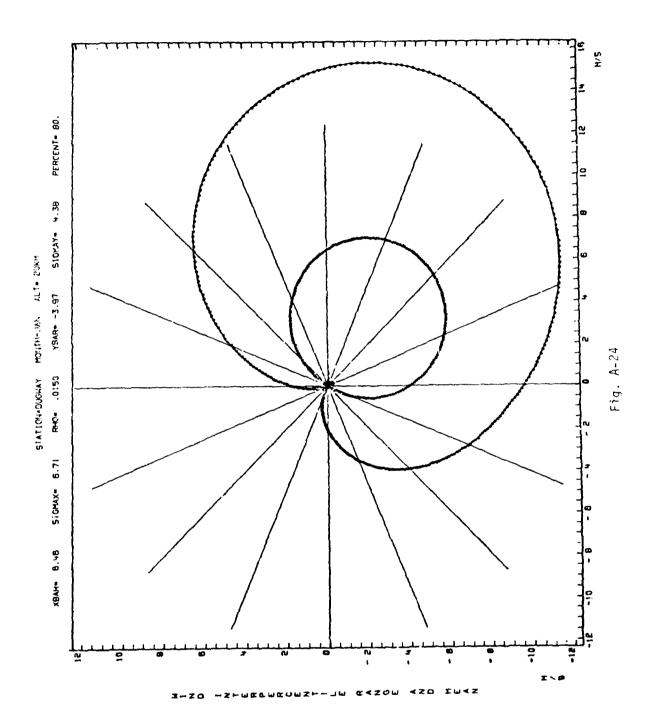


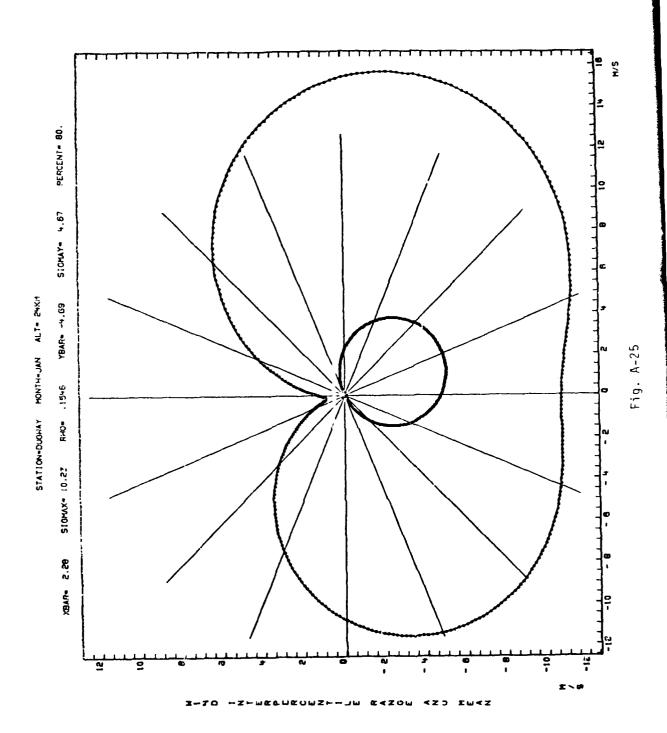


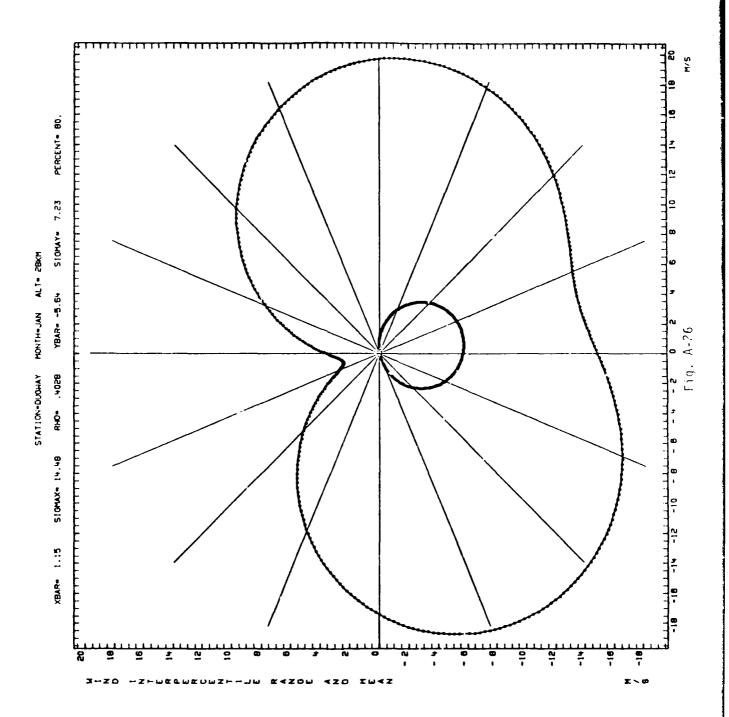


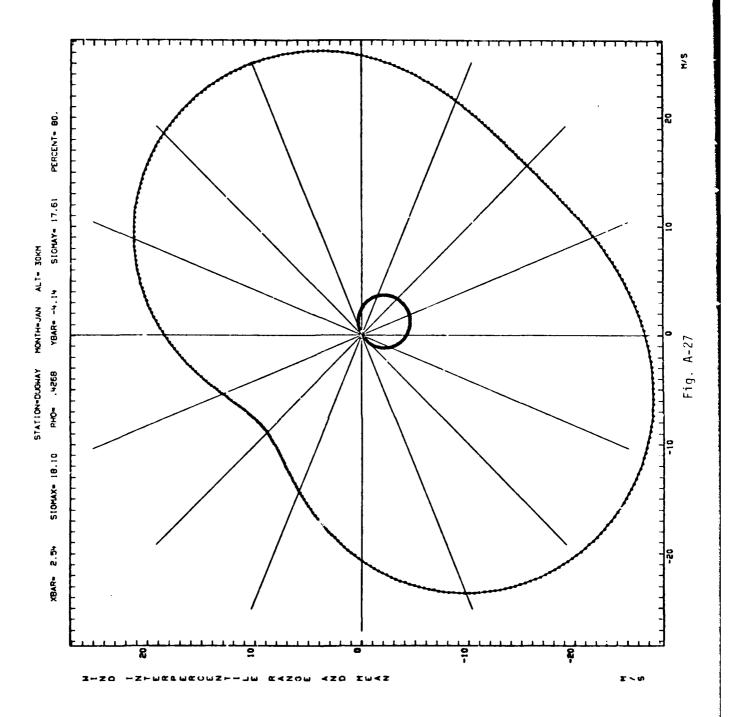


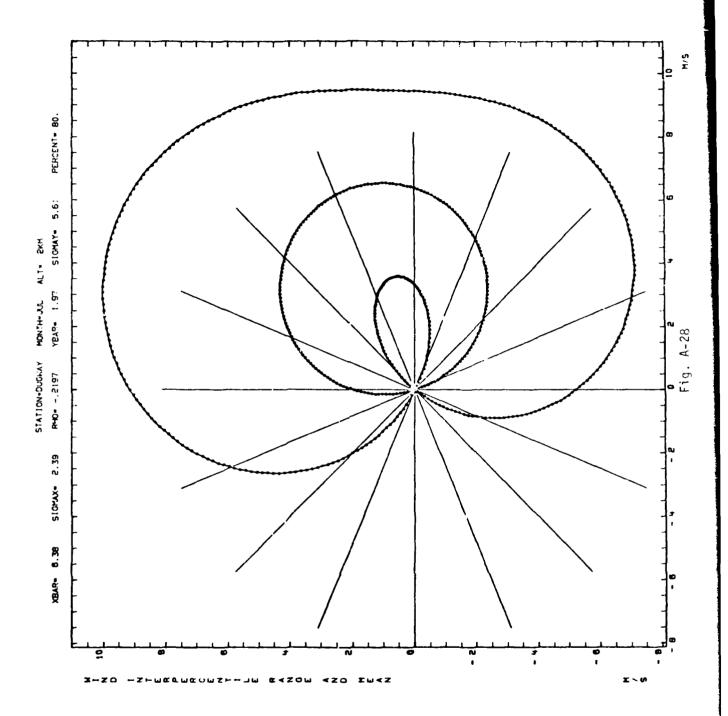


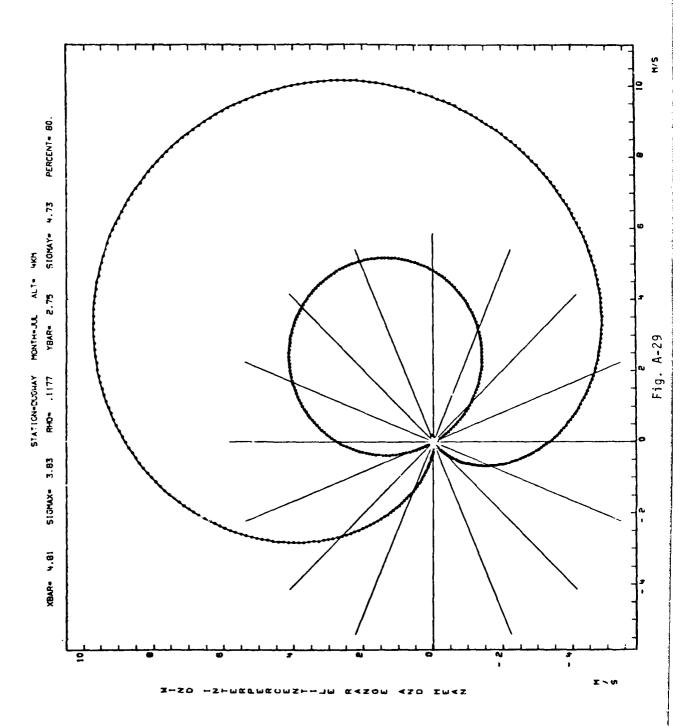


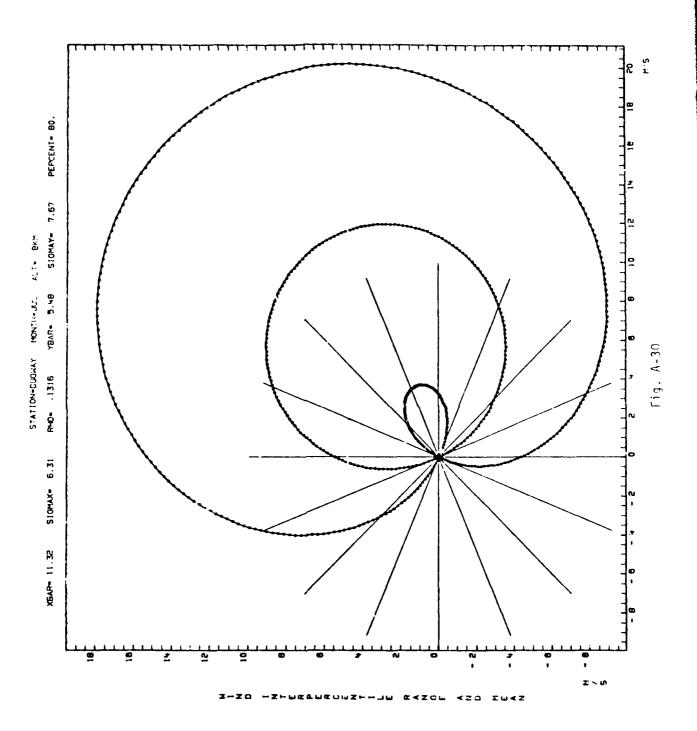


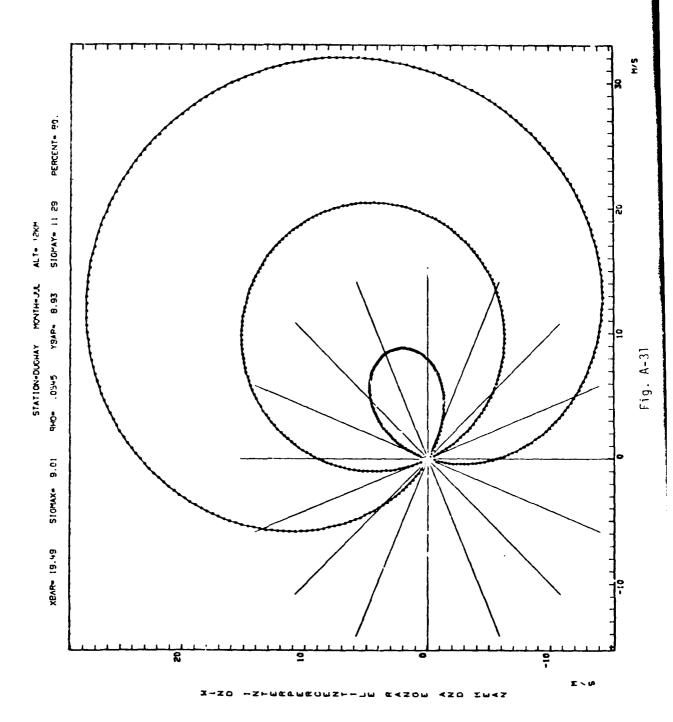


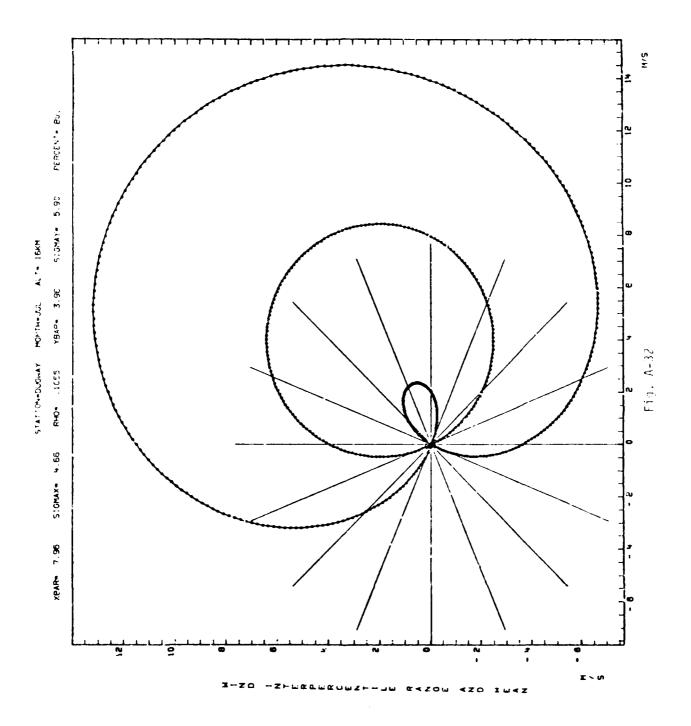


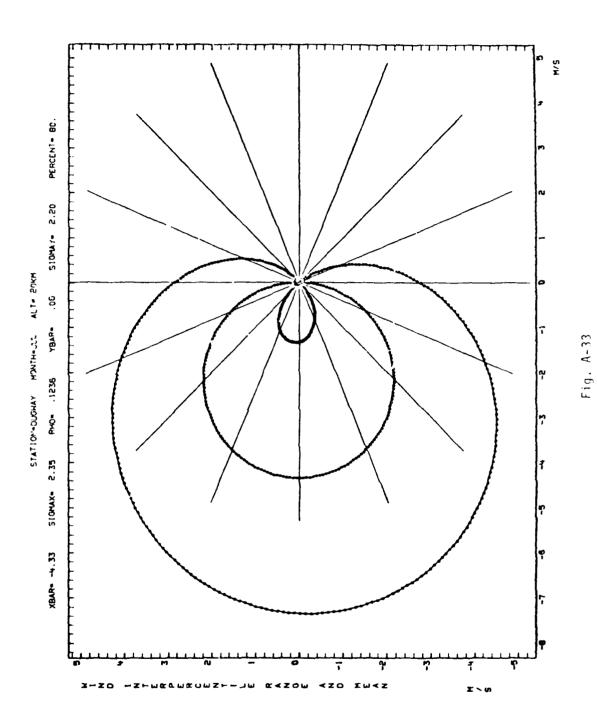


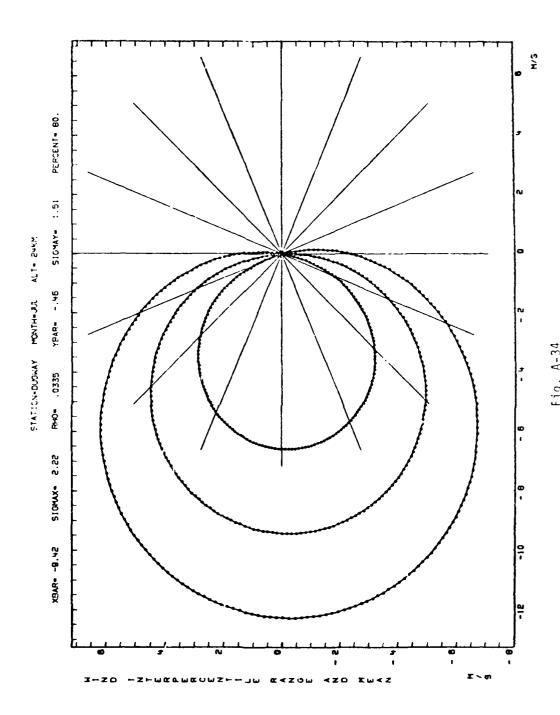


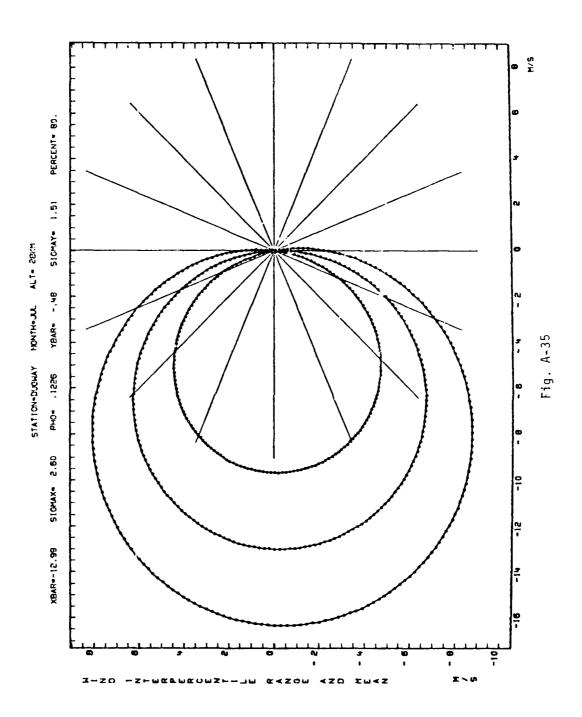


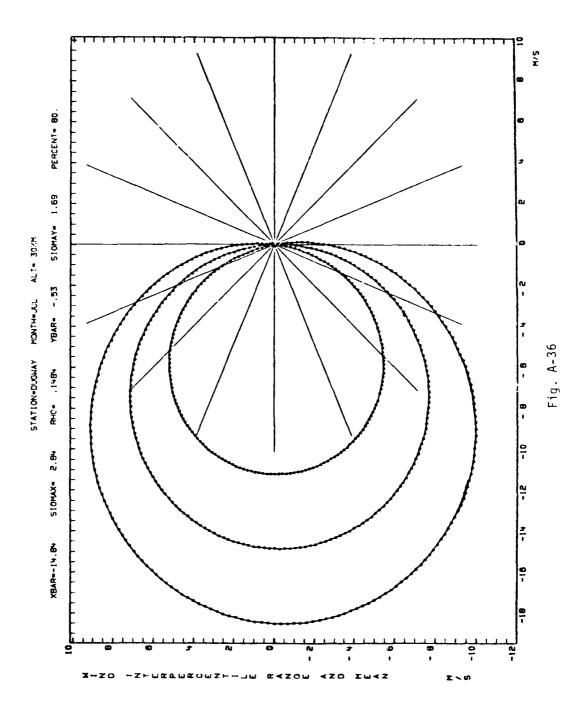












## WIND PROGRABILITY ELLIPSES

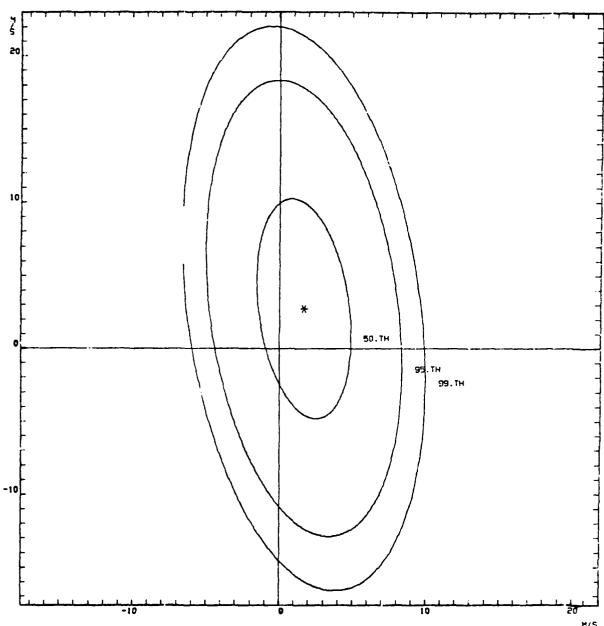


Fig. A-37

## WIND PROBABILITY ELLIPSES

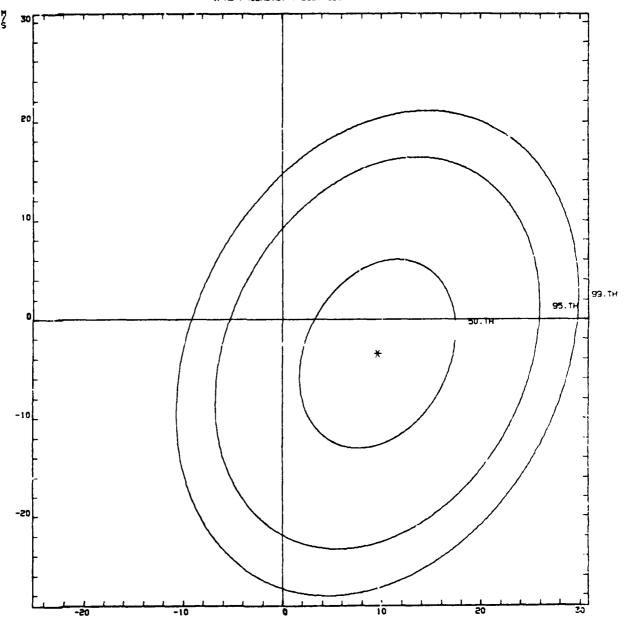


Fig. A-38

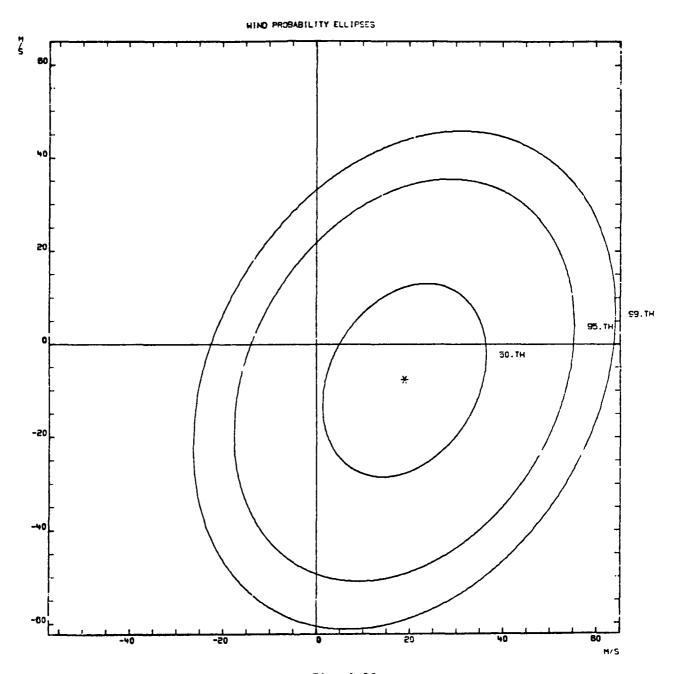


Fig. A-39

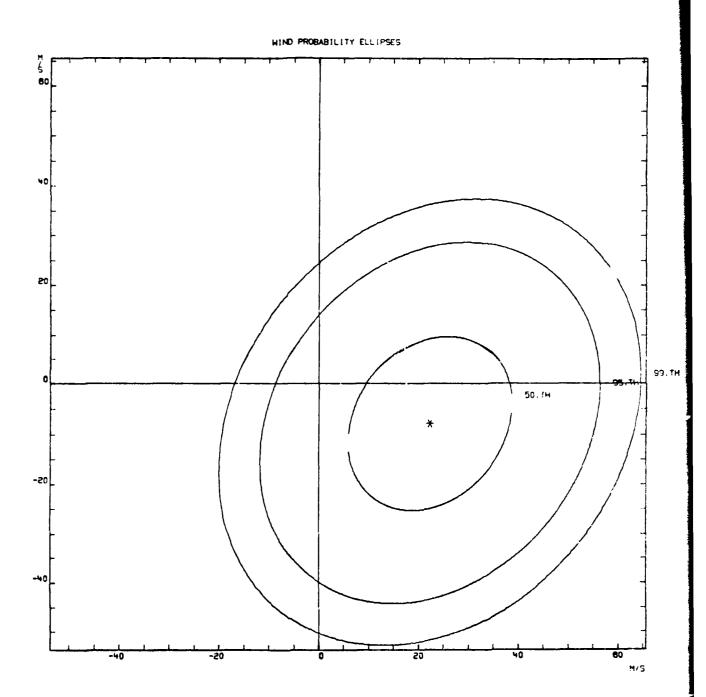


Fig. A-40

## HIND PROBABILITY ELLIPSES

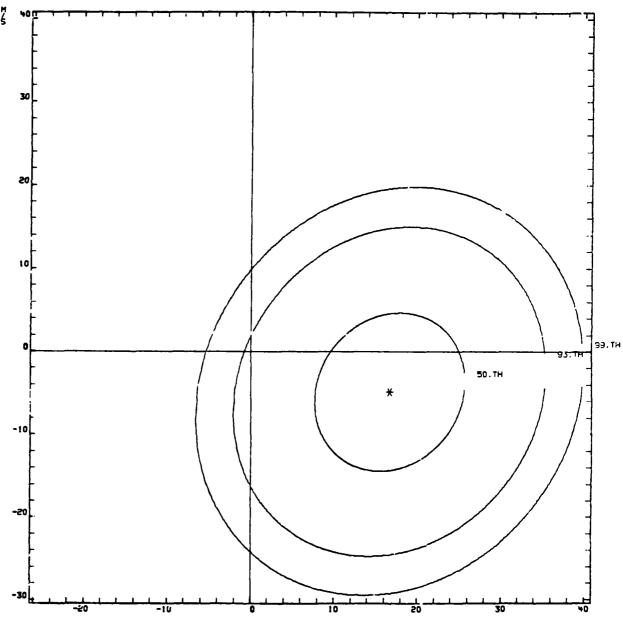


Fig. A-41

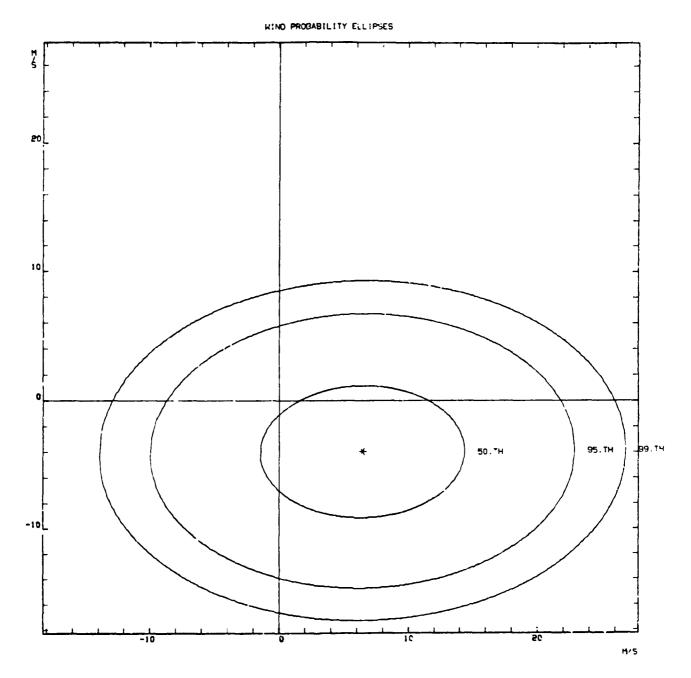
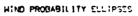


Fig. A-42

126



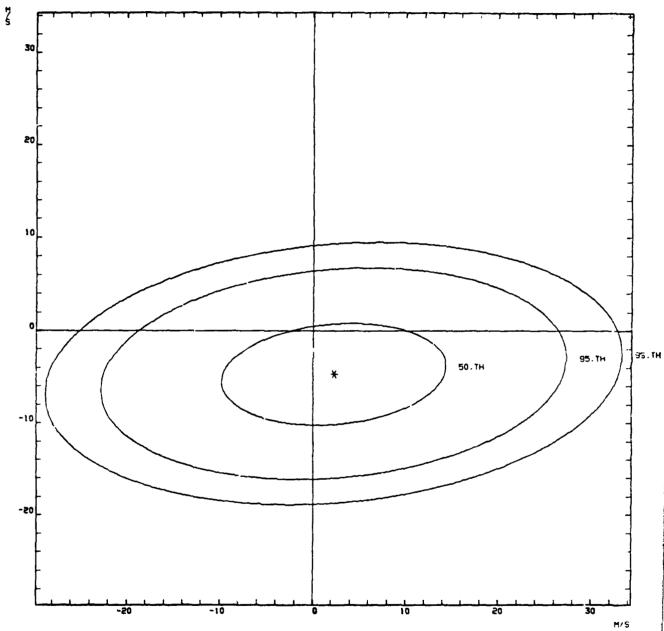
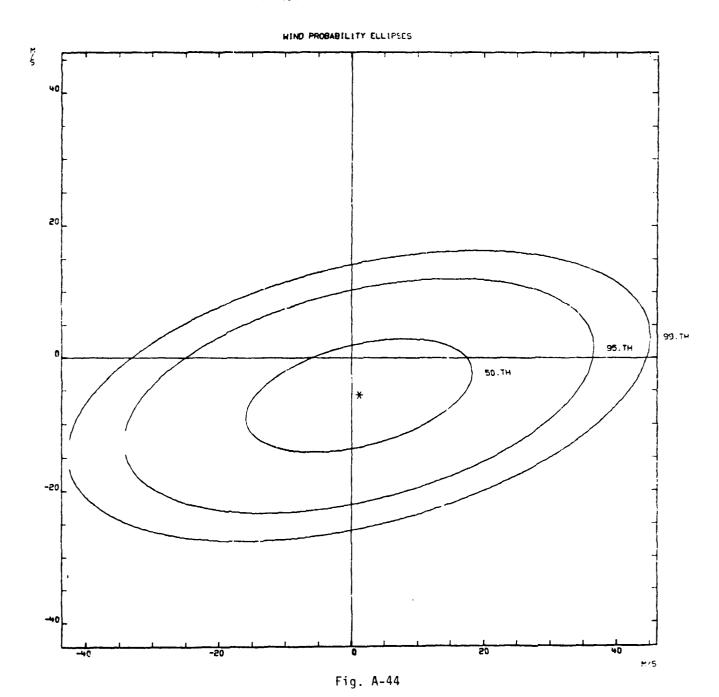
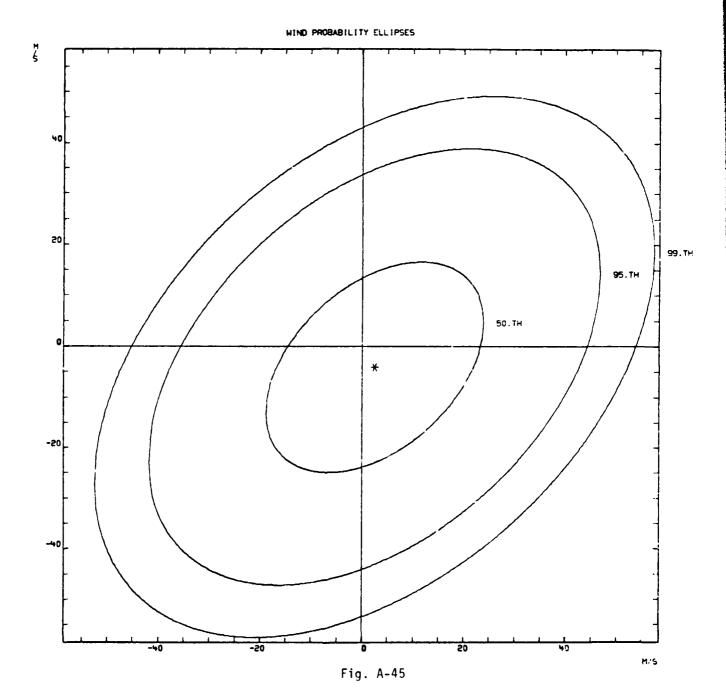
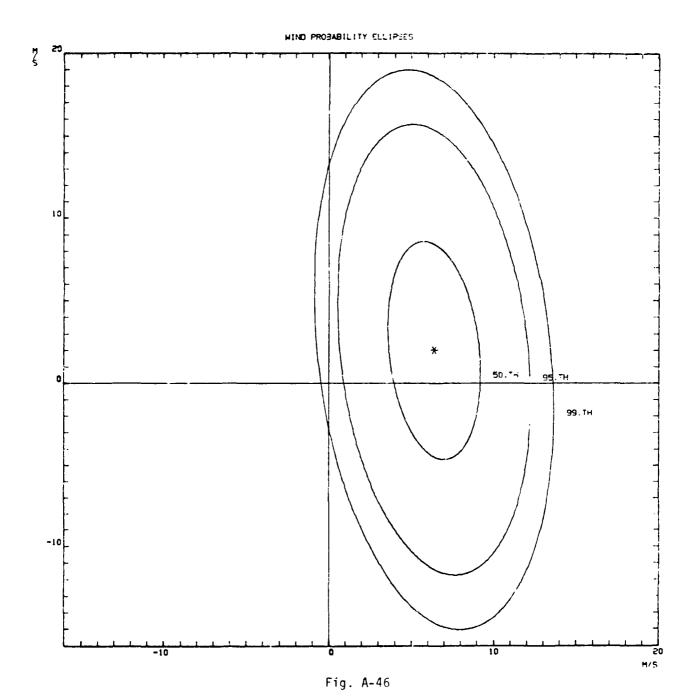


Fig. A-43







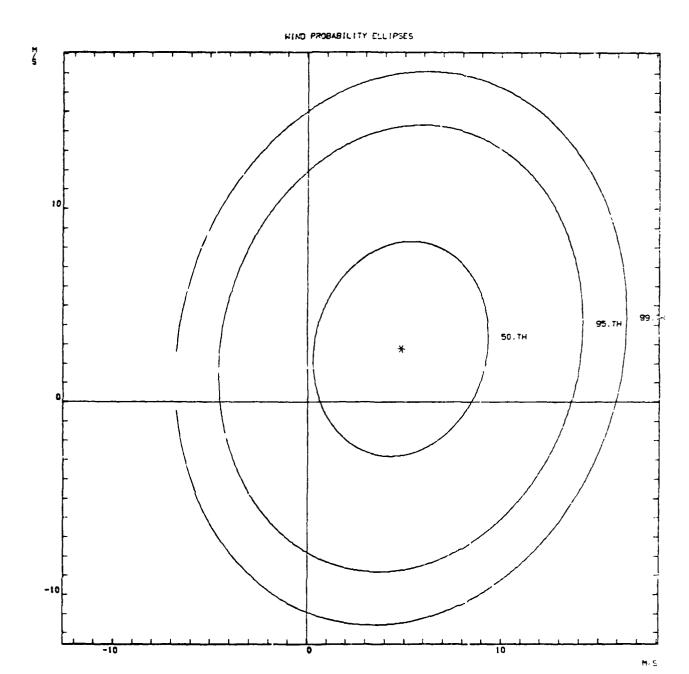


Fig. A-47

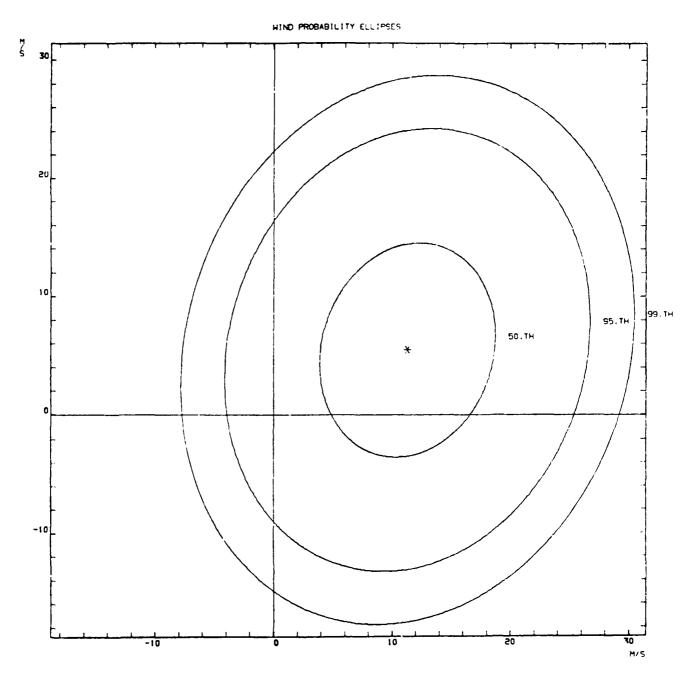


Fig. A-48

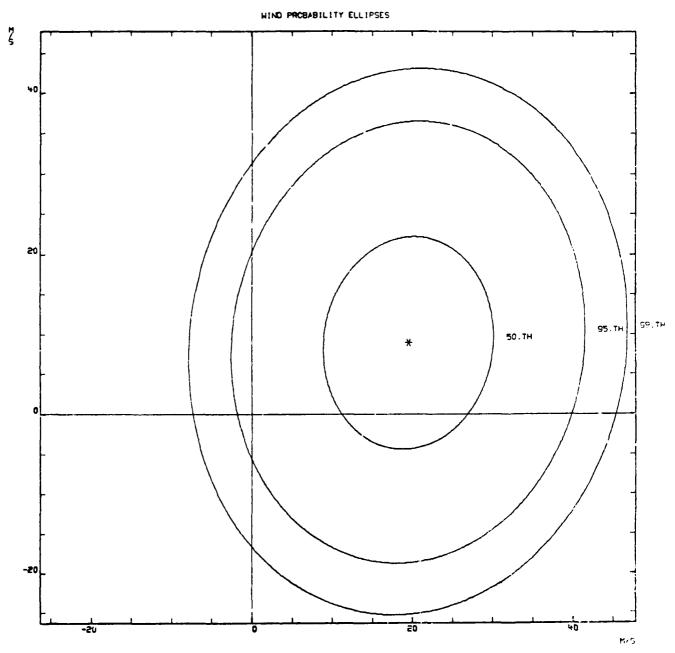


Fig. A-49

## HIND PROBABILITY ELLIPSES 4 95.TH 50.TH -10

Fig. A-50

11/5

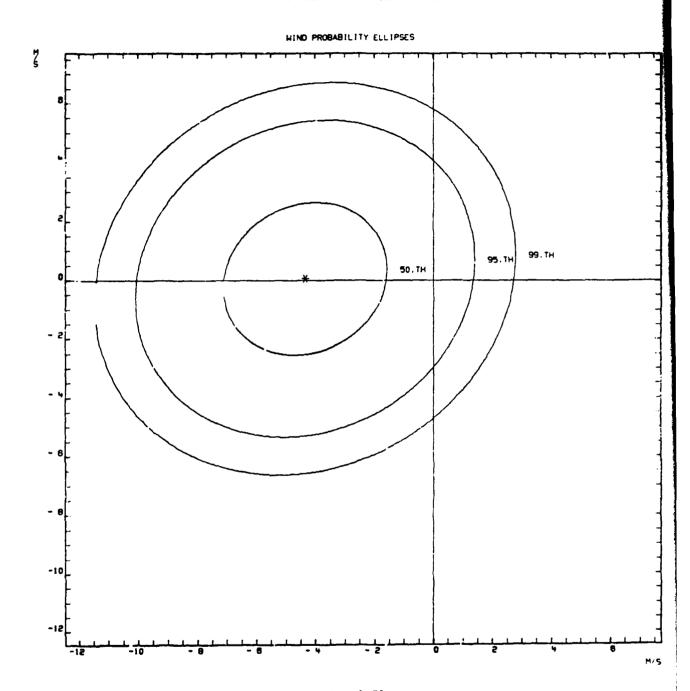


Fig. A-51

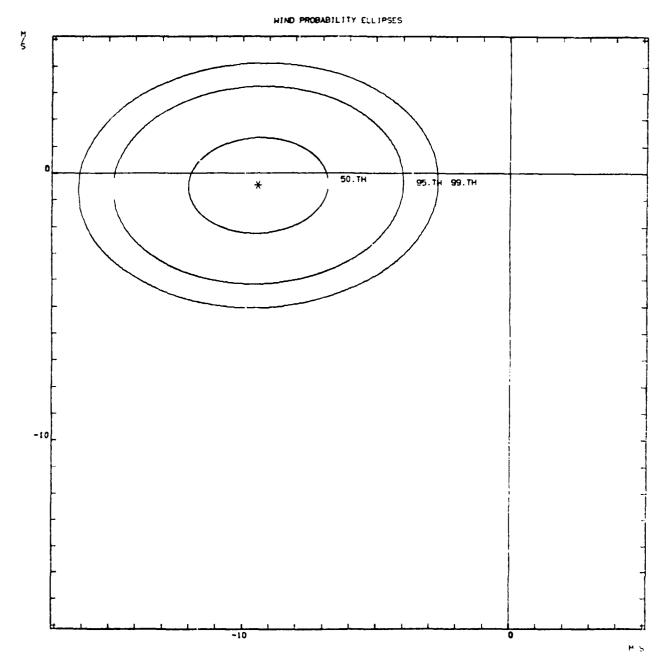


Fig. A-52

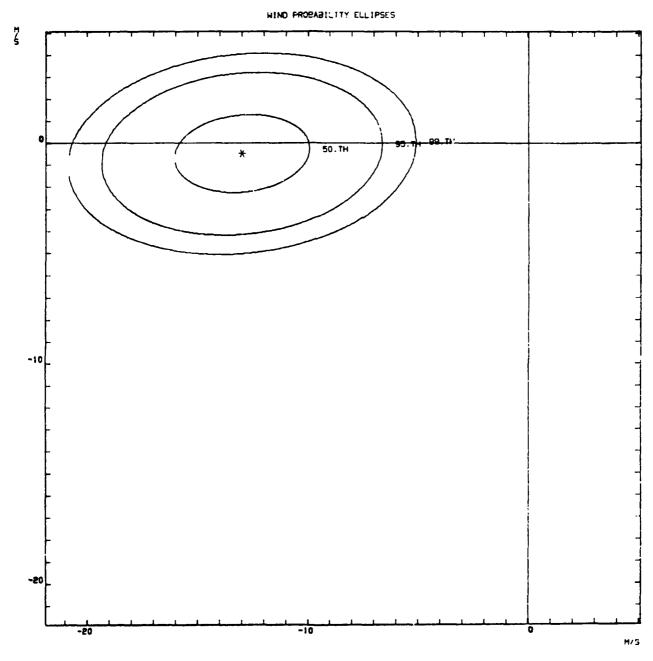


Fig. A-53

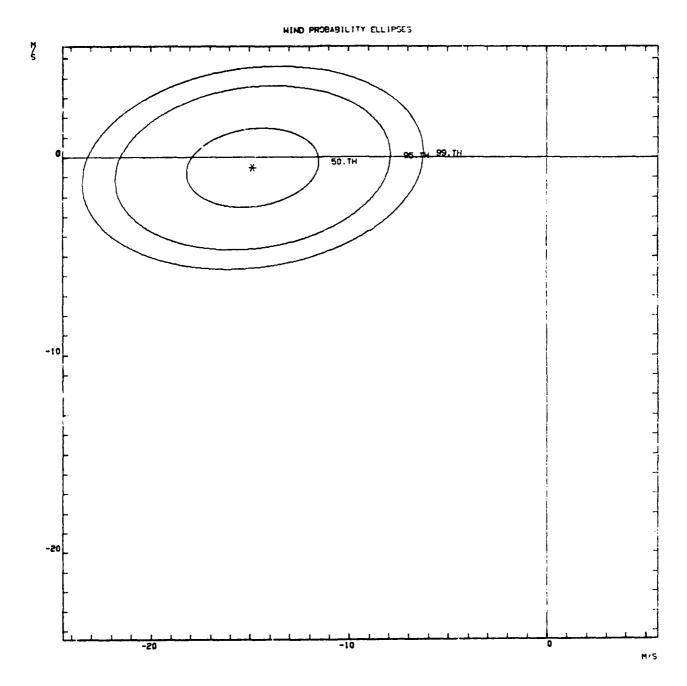
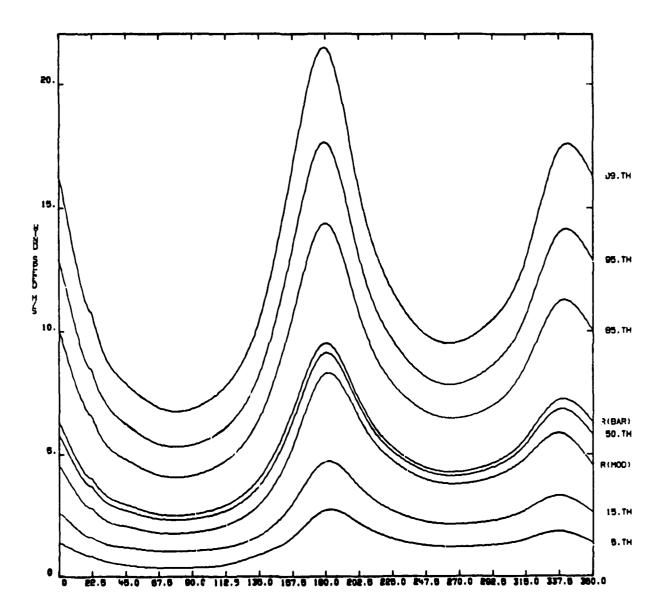


Fig. A-54

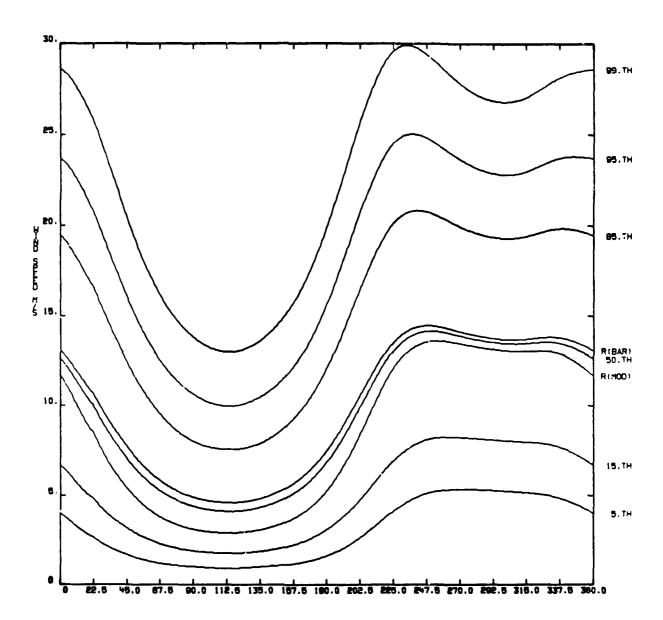
#### STATION-DUGHAY HONTH-JAN ALT- BOT



CONDITIONAL HIND SPEED GIVEN HIND DIRECTION

Fig. A-55

## STATION-DUGHAY MONTH-JAN ALT- HOH



# CONDITIONAL HIND SPEED GIVEN HIND DIRECTION

## STATION-DUCHAY HONTH-JAN ALT- BIO

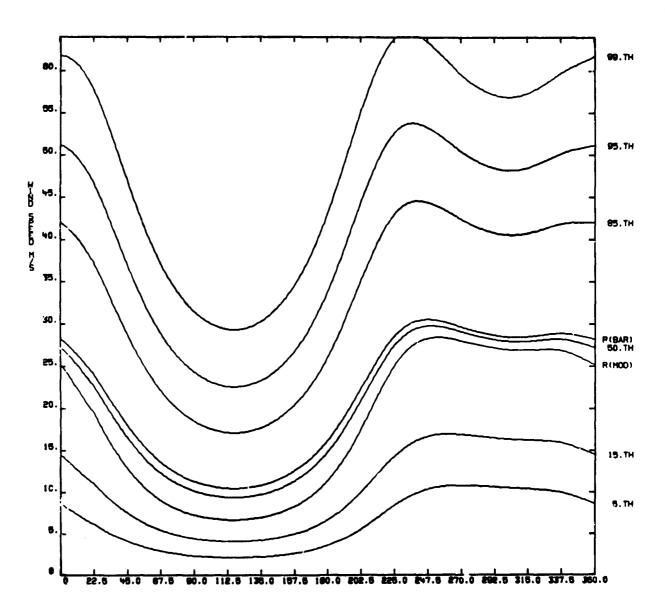


Fig. A-57

#### STATION-DUCHAY MONTH-JAN ALT- 12KH

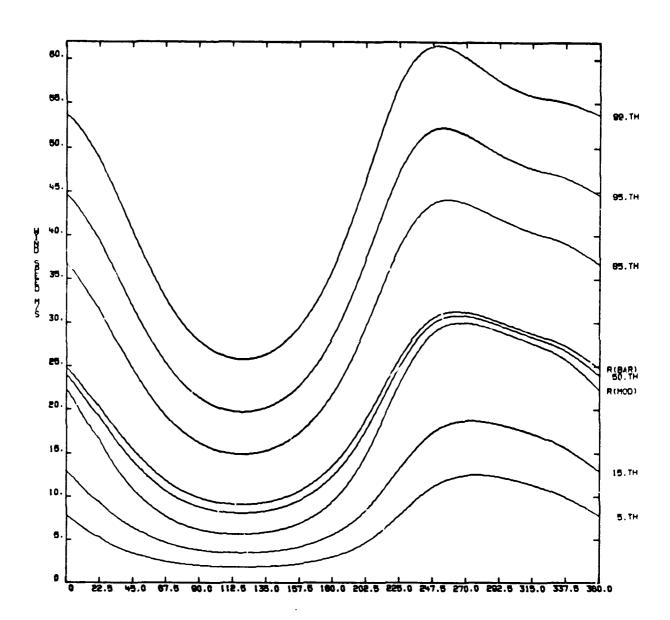
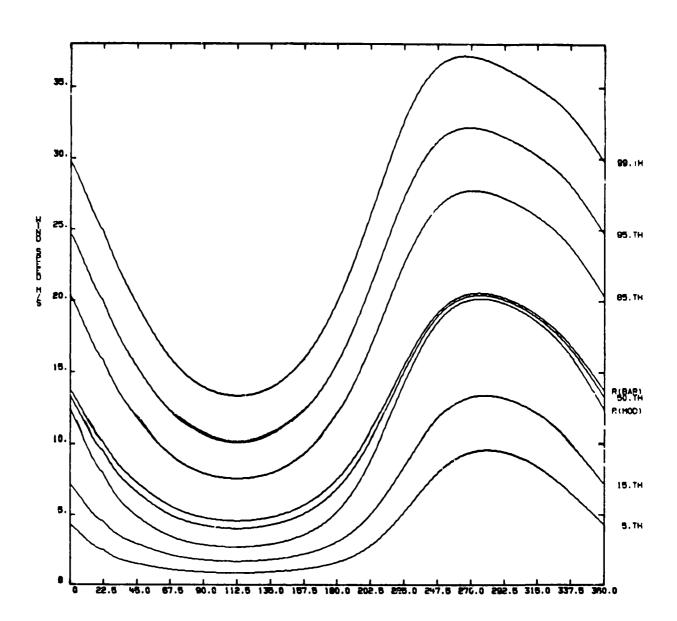


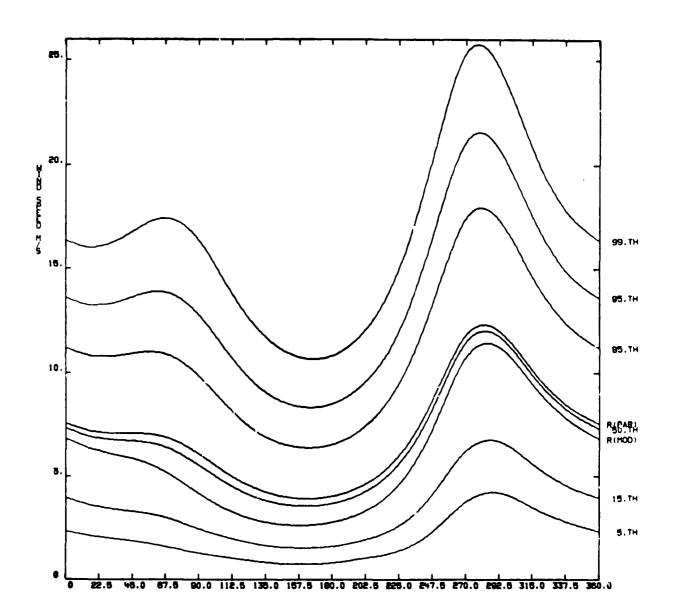
Fig. A-58



CONDITIONAL HIND SPEED GIVEN HIND DIRECTION

Fig. A-59

#### STATION-DUCHAY HONTH-JAN ALT- 2CKH



#### CONDITIONAL HIND SPEED GIVEN HIND DIRECTION

## STATION-CUCHAY HONTH-JAN ALT- 24101

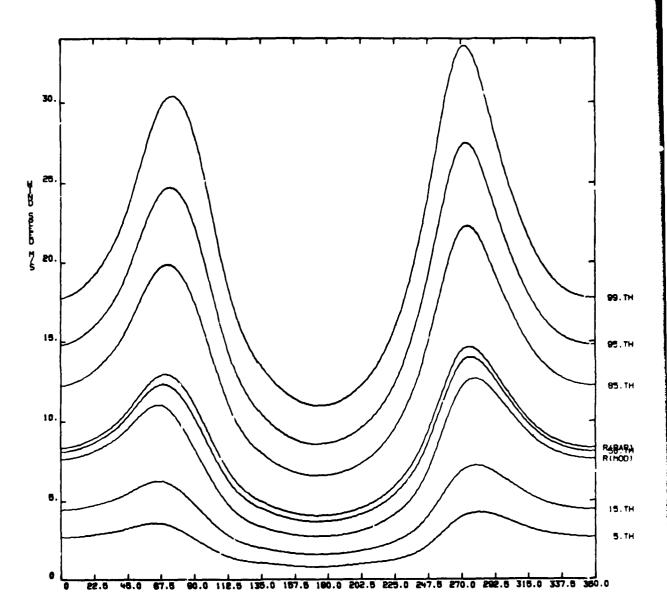


Fig. A-61

#### STATION-DUCHAY HONTH-JAN ALT- 20101

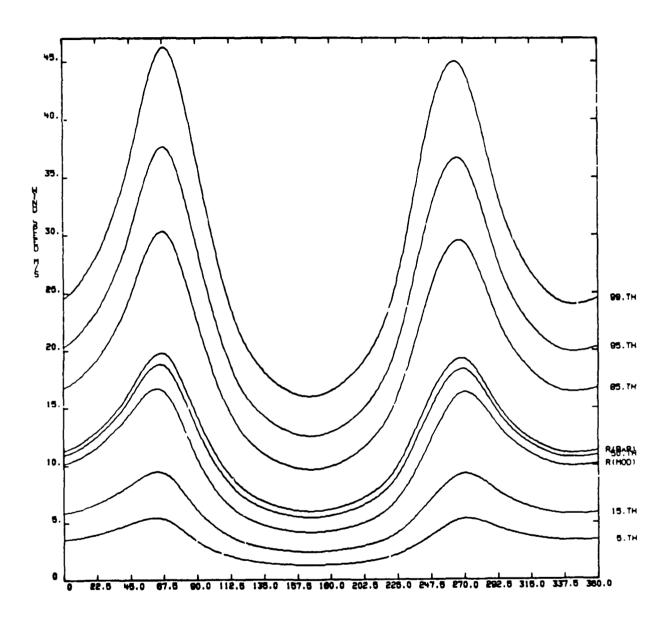
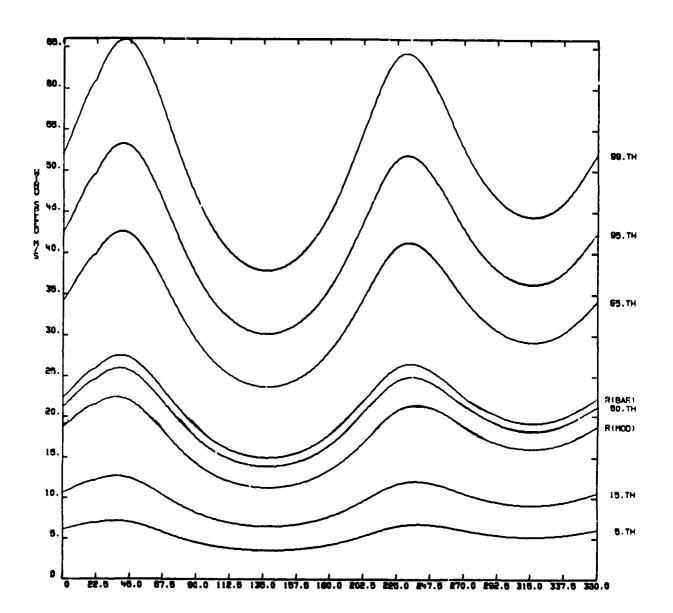


Fig. A-62

#### RTATION-DUGHAY HONTH-JAN ALT- 3CKH



# CONDITIONAL HIND SPEED DIVEN HIND DIRECTION

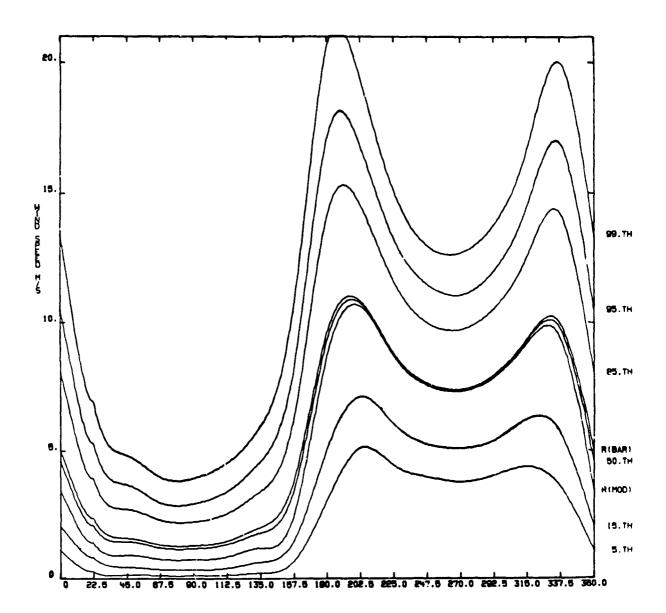
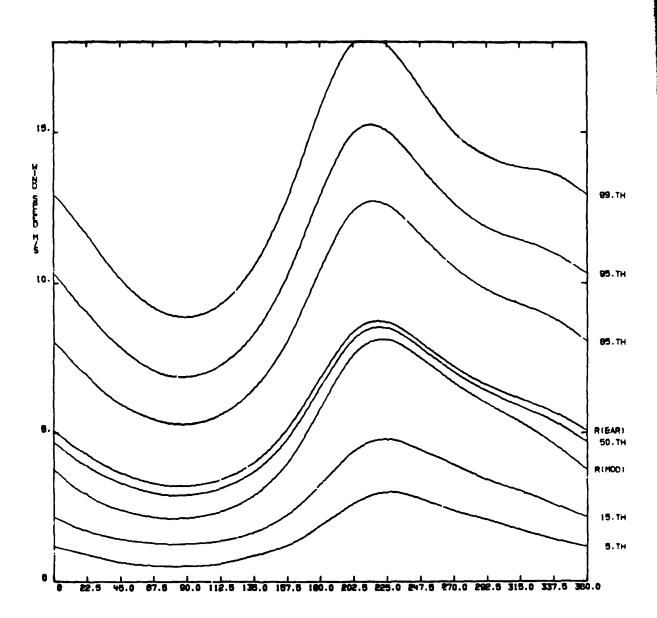


Fig. A-64



CONDITIONAL HIND SPEED DIVEN HIND DIRECTION

Fig. A-65

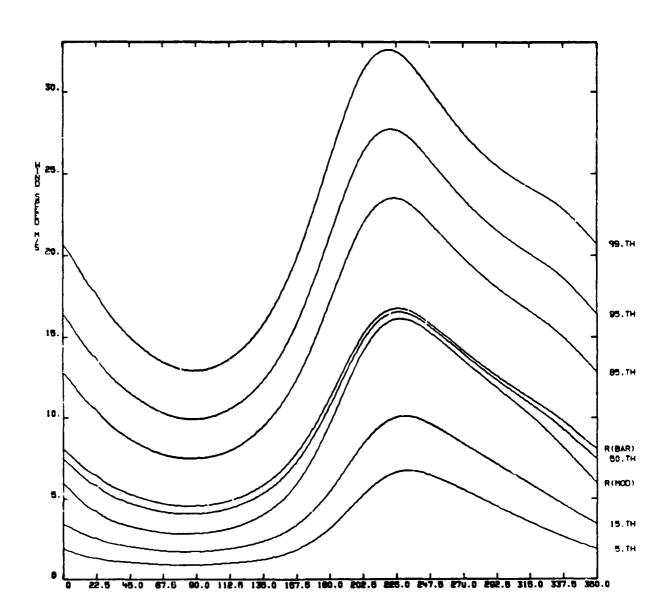


Fig. A-66

#### STATION-DUCHAY MONTH-JUL ALT= 1204

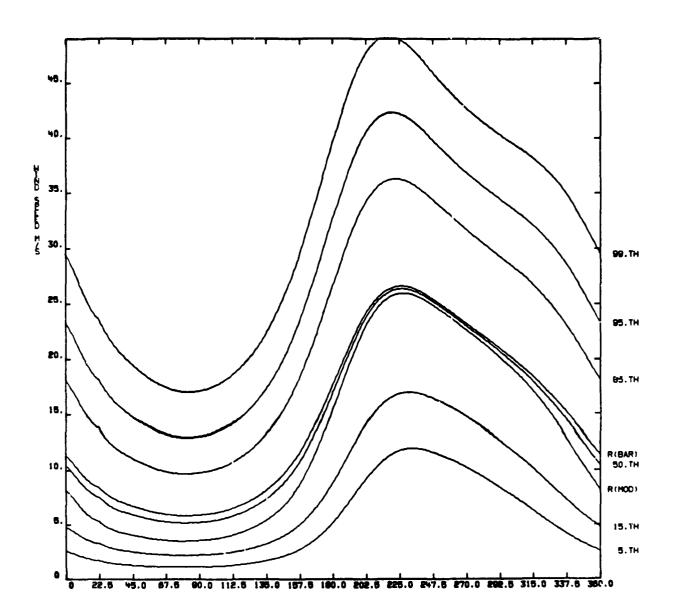
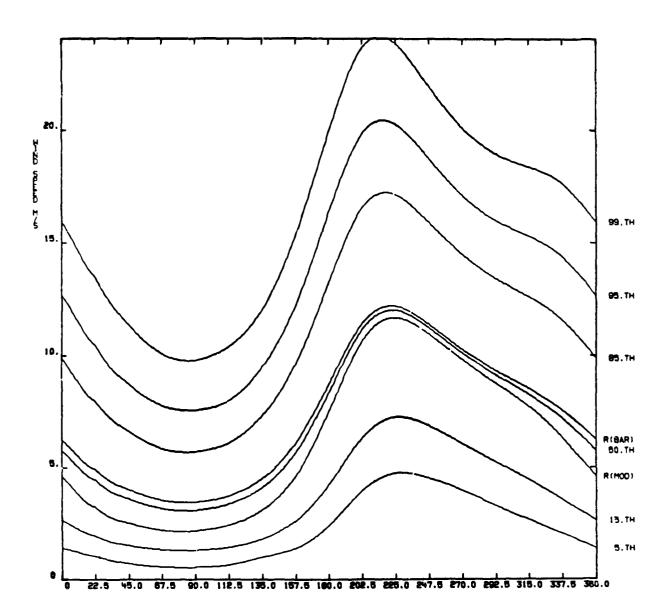
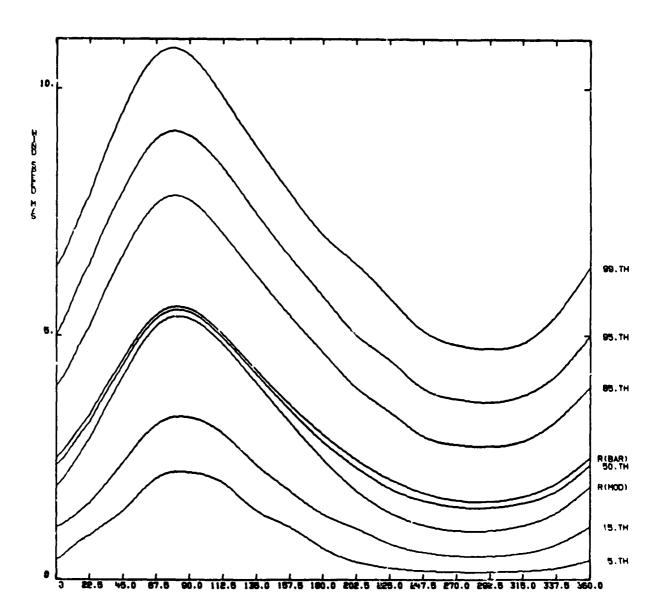


Fig. A-67

# STATION-OUGHAY HONTH-JUL ALT- 15KH

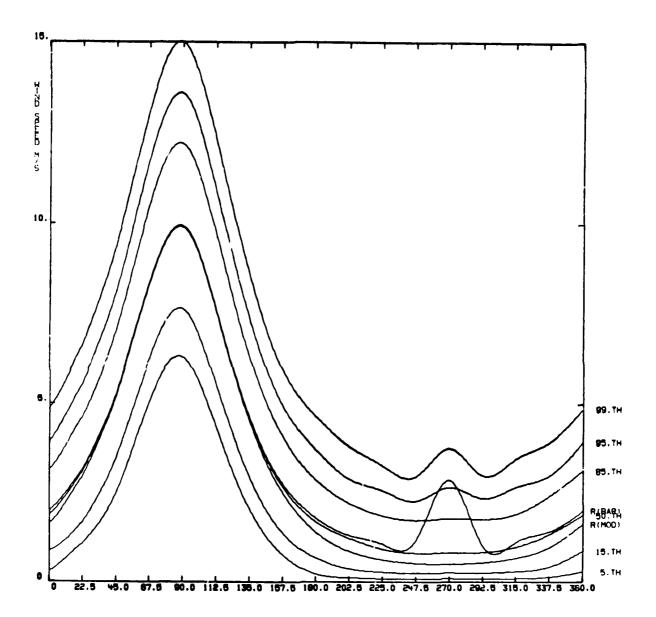


# CONDITIONAL HIND SPEED GIVEN HIND DIRECTION



CONDITIONAL HIND SPEED GIVEN HIND DIRECTION

Fig. A-69



#### CONDITIONAL HIND SPEED GIVEN HIND DIRECTION

#### STATION-DUGHAY HONTH-JUL ALT- 29KH

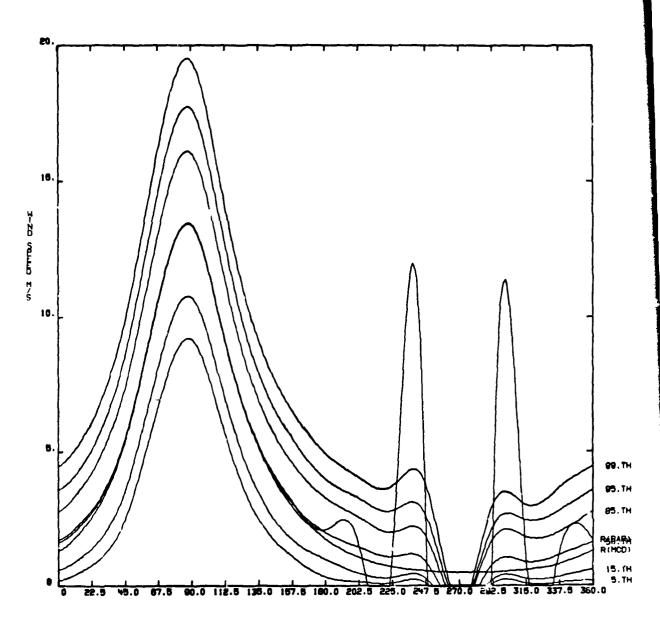
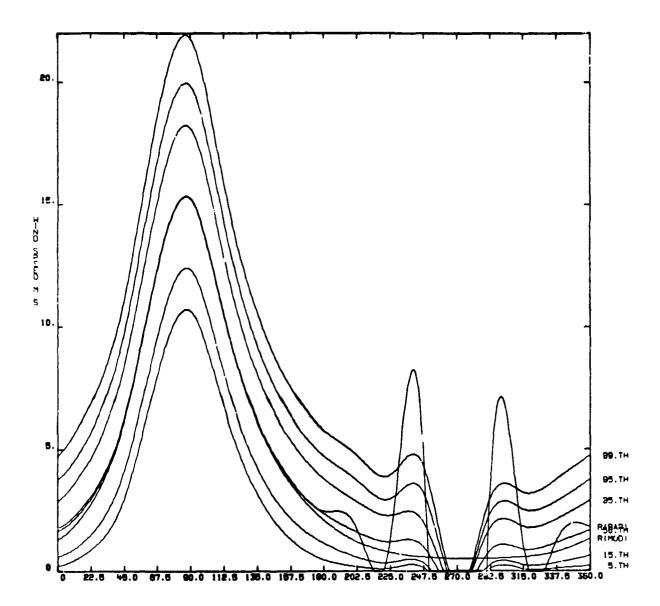


Fig. A-71



CONDITIONAL HIND SPEED GIVEN HIND DIRECTION

Fig. A-72

#### APPENDIX B

# RANGE SPECIFIC INFORMATION AND THERMODYNAMIC QUANTITIES FOR DUGWAY, UTAH

(Data base is from Salt Lake City, Utah)

## 1. Range Specific Information

To prevent further character size reduction for tables I through IV, certain range-specific information has been omitted. This important information is given in table B-1.

#### TABLE B-1

#### Header Record 0-30 Km

Table Number	0
Data Source (1 = DATSAV, 2 = WDC-A	1
Call Letters	SLC
WMO Number	725720
Latitude	-40.46
Direction (N or S)	
Longitude	111.58
Direction (E or W)	
Elevation in Meters	
Start Period of Record (Mo-Yr)	
End Period of Record (Mo-Yr)	
No. of Time Windows (0, 1, or 2)	
Start Time Window #1 (Hr-MNZ)	0
End Time Window #1	0
Start Time Window #2	
End Time Window #2	
Date of RRA	980
Altitude Range of RRA Low Level (Km)	
Altitude Range of RRA High Level (Km)	30
Standard Deviation of Thermodynamic Limits	6.0
Wind Limits	

#### 2. Thermodynamic Quantities

This section presents examples of further computations and graphical displays of pressure, density, and virtual temperature statistics that can be derived from data given in tables II, III, and IV. No attempt is made to present complete nor exhaustive illustrations that can be made to aid in visualizing the relationships that can be made from the data in tables II and IV. The choices are those that aided the committee to verify the reasonableness of the tabulations.

#### 2.1 Monthly Means from the Annual Mean

The hydrostatic model values in table IV are used to compute (1) the monthly mean differences relative to the annual mean values of pressure,

density, and virtual temperature expressed in percent and (2) the monthly mean difference in virtual temperature for the annual mean virtual temperature expressed in degrees Kelvin. Examples of these four statistics are given in table B-2 for January and table B-3 for July. Graphical displays of the four statistics contained in tables B-2 and B-3 are shown in figures B-1 through B-8. Also, the relative differences between the monthly mean values from table IV-1 through IV-12 for all months from the annual mean values (table IV-13) are illustrated in figure B-9 for pressure, in figure B-10 for density, and in figure B-11 for virtual temperature. The monthly mean virtual temperature differences from the annual mean virtual temperature tor all months are given in figure B-12. The simple sum of the monthly mean differences from the annual mean values of these quantities is not zero. This is because the annual mean statistical parameters are computed (see section III. C.3) by weighting the monthly means by the number of observations in each month.

#### 2.2 Coefficients of Variation and Derived Correlation Coefficients

The coefficient of variation,  $C_{V}$ , is defined by the standard deviation with respect to the mean divided by the mean. The coefficients of variation for pressure,  $C_{V}P$ , and density,  $C_{V}D$ , were computed using the standard deviations from table II and the hydrostatic mean values from table IV. The coefficient of variation for temperature uses the standard deviations of virtual temperature from table III to the altitude where virtual temperature exists. Above this altitude, the standard deviations of temperature are from table II. The mean values for temperature (virtual temperature to the altitude where it exists) are taken from table IV. No distinction is made in the table headings in table B-4 (Jan) and table B-5 (July) and all related figures between virtual temperature and temperature.

From the coefficients of variation for pressure, density, and temperature (virtual temperature to the altitude where it exists), the correlation coefficients between these quantities are derived using Buell's method (see reference in text). The equations for these derived correlation coefficients are

$$r(P,T) = \frac{(C_V T)^2 + (C_V P)^2 - (C_V D)^2}{2[C_V T + C_V P]} \qquad (8-1)$$

$$r(P,D) = \frac{(C_V D)^2 - (C_V T)^2 + (C_V P)^2}{2[C_V D \cdot C_V P]} \qquad (B-2)$$

$$r(T,D) = \frac{(C_V P)^2 - (C_V D)^2 - (C_V T)^2}{2[C_V T \cdot C_V D]} . \tag{B-3}$$

The correlation coefficients in tables B-4 and B-5 are derived from the above equations.

A test for the validity of the derived correlation coefficients is that all three of the following inequalitites be satisfied.

$$C_{V}P - (C_{V}D + C_{V}T) < 0$$

$$C_{V}D - [C_{V}T + C_{V}P] < 0$$

$$C_{V}T - [C_{V}P + C_{V}D] < 0$$
(B-4)

In these examples (tables B-4 and B-5) the numerical values from equation (B-4) are all negative; hence, the derived correlation test is considered valid. The rare exceptions to this test for several RRAs occur at the extreme highest altitudes, where sample sizes for the statistical sample are small.

The statistical parameters from table B-4 (January) and table B-5 (July) are illustrated in figures B-13 through B-16.

For all months the  $C_VP$  values are shown in figure B-17, the  $C_VD$  values are shown in figure B-18, and  $C_VT$  values are shown in figure B-19. If the abscissa on the figures for the coefficient of variation were multiplied by 100, these figures would show the percentage of the random dispersion of these quantities over the month with respect to the monthly mear for these thermodynamic quantities.

The derived correlation coefficients for all months are illustrated in the following figures:

- a) Figure B-20 gives r(P,D).
- b) Figure B-2' gives r(P,T).
- c) Figure B-22 gives r(T,D).

TABLE B-2

TABLE B-3

	1725720 IN PERCENT	MONTH 1 RELATIVE T	O ANNUAL			1 725720 In Percent	MONTH 7	O ANNUAL	
LEVEL	PRESSURE	DENSITY	TEMP.	THO-TANN (DEG.K)	LEVEL	PRESSURE	DENSITY	TEMP.	THO-TANN(DEG.K)
.000	1.05	6.87	-5.61	-16.48					
1.000	.40	5.66	-4.92	-14.12	.000	- 81	-6.12	5.49	16.12
1.288	.22	5,26	-4.76	-13.57	1.000	21	-5.21	5.27	15.13
2.000	17	4.00	-4.03	-11.35	1.298	04	-4.98	5.22	14.89
3.000	65	2.89	3.45	-9.48	2.000	. 38	-4.46	5.07	14.30
4.000	-1.05	1.92	-2.92	-7.82	3.000	.96	-3.69	4.82	13.24
5.000	-1.42	1.24	-2.63	-6.87	4.000	1.52	-2.71	4.34	11.53
6.000	-1.77	. 80	-2.56	-6.50	5.000	2.04	-1.77	3.88	10 13
7.000	-2.12	.51	-2.62	-6.46	6.000	2.54	-1.20	3.77	9.58
8.000	-2.49	. 15	-2.64	-6.32	7.000	3.06	91	4 O1	3.91
9.050	-2.87	61	-2.50	-0.5	8.000	3.63	57	4.22	10.11
10.000	-3.24	83	-2 42	-5.47	9.000	4.25	~ . ღგ	4.31	10.CP
11 500	-3.57	-1.65	-1.95	-4.30	10.000	4 88	.75	4.10	9.ch
12.000	-3.80	-2.78	-1.07	-2.33	11.000	5.44	2.11	3.28	7.23
13.000	-3.89	-3.77	10	52	12.000	5, 35	3.96	1.82	3 📆
14.000	-3.97	-4.26	. 41	.67	13.000	6.01	5.91	. 12	.76
15.000	-3.79	-4.37	.57	55.1	14.000	5.93	7.22	-1.21	-2.60
15.000	-3.72	-4.13	.45	.95	15.000	5,65	7.75	~1.95	-4.15
:7 000	-3.66	-3.90	. 22	.46	16.000	5.32	7.45	~1.96	÷.15
18.050	-3.65	-3.56	03	06	17.000	5.04	6.45	~1.33	-2.83
19.000	-3.68	-3.36	35	~. 74	18.000	4.88	5.46	48	-1.03
SO 000	-3.75	-3.19	57	-1.23	19.000	4.87	4.57	. 30	đ <b>3</b> .
21.000	-3.86	-3.06	82	-1.77	50.000	4.96	4.11	.8)	1.73
22.000	-4.00	-2.99	-1.03	-2, 34	21.000	5.13	3.65	1.22	2.F
23.000	-4.17	-2.92	-1.69	-2.80	55.000	5.35	3.78	1.51	3.27
24.000	-4.38	-2.97	-1,44	-3.16	53.000	5.61	3.80	1.75	3.81
<b>25 300</b>	-4.61	-3.02	-1.62	-3.56	24.000	5.91	3.89	1 . 94	<b>₩</b> 1,5%)
et.000	-4.86	-3.14	-1.78	-3.93	25.000	6.23	4.05	2.:0	4.62
27.000	-5.14	-3.21	-2.00	-4.45	26.000	6.58	4.23	2.25	9.97
20.000	-5.44	-3.36	-2,14	-4.78	27.000	6.95	4.45	2.39	5.31
29.000	-5.76	-3.60	-2.24	-5.05	58.000	7.34	4.74	<b>2.5</b> 2	5 h.f
an noù	4.5.00	2 504	-3 \$t-	g. 71	29.000	7.74	5.08	2.52	ى. 5
				2.2.	30.000	8.13	5.52	8٠.٤	4, 1, 7

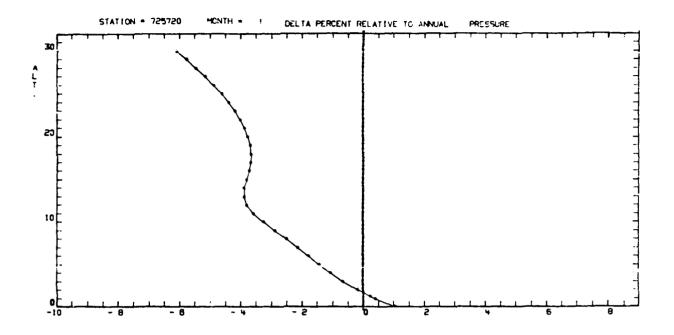


Fig. B-1

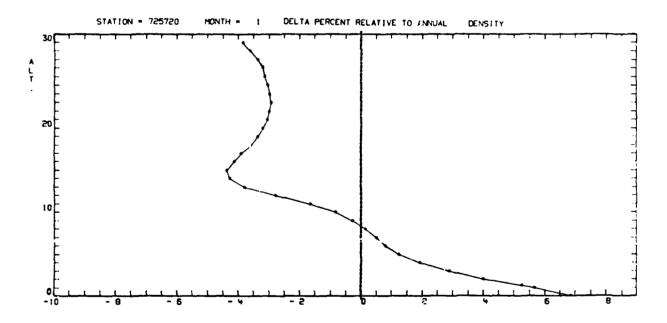


Fig. B-2

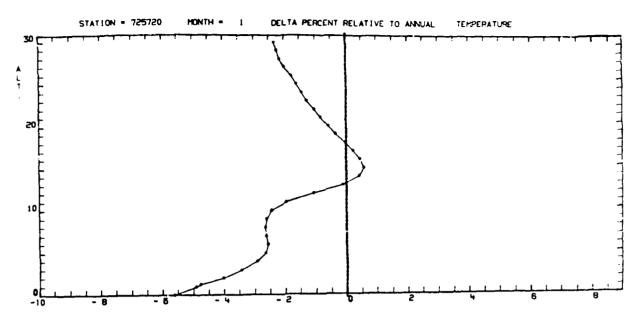


Fig. B-3

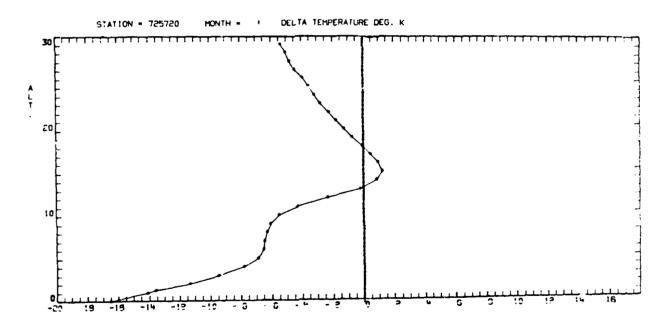


Fig. B-4

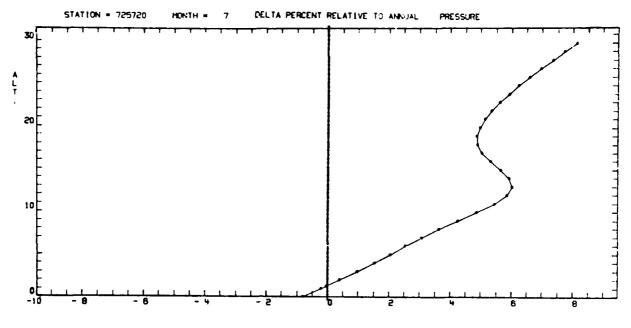


Fig. B-5

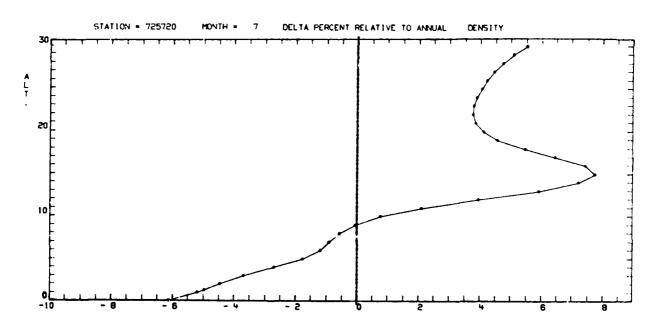


Fig. B-6

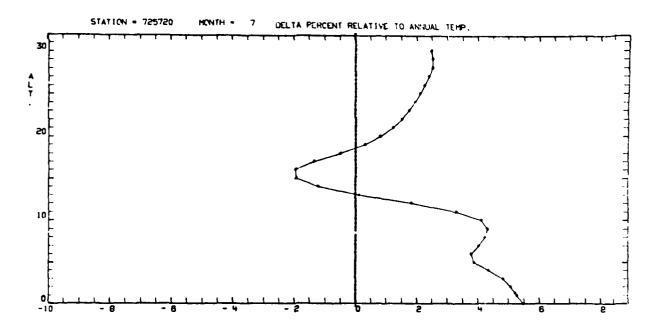


Fig. B-7

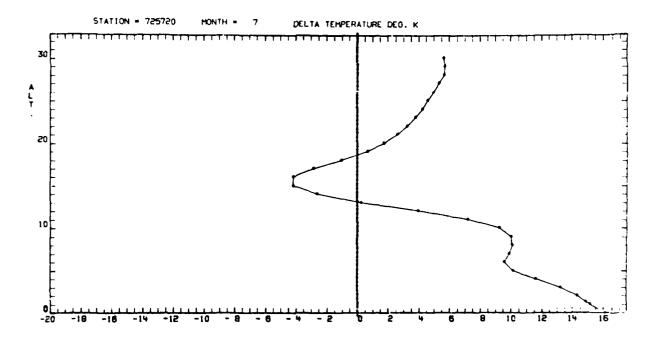


Fig. B-8

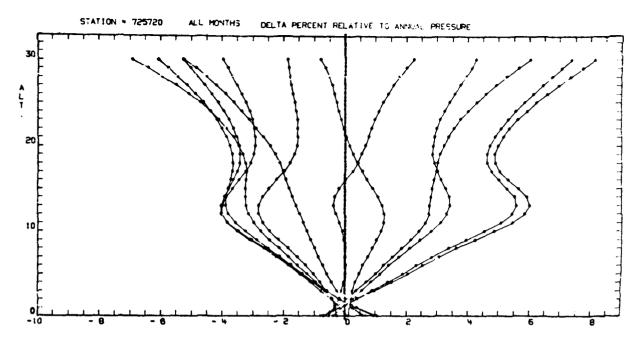


Fig. B-9

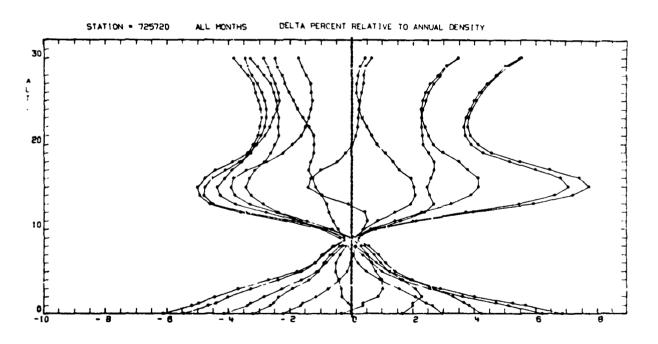


Fig. B-10

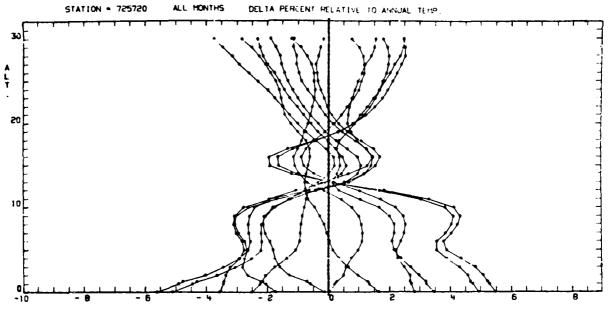


Fig. B-11

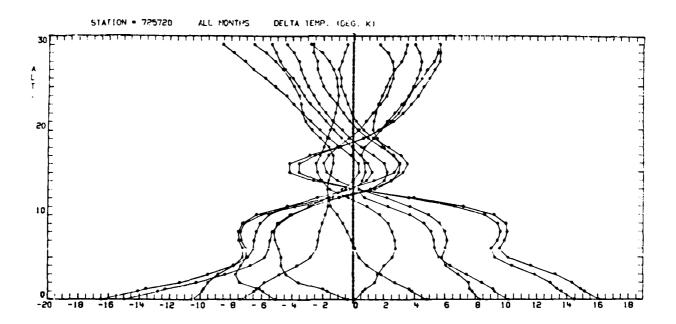


Fig. B-12

TABLE B-4

STATION 7	15720 MON	ITH L							
LEVEL	CVP	CVD	CVT	R(P,T)	R(P,D)	R(T,D)	DCVP	DCVD	DC <b>VT</b>
.000	.0110	.0461	.0361	8720	. 9234	9931	0712	0011	0210
1.000	.0087	.0313	.0260	5081	.698+	9713	0487	0034	0140
1.288	. 0084	. 0280	. 0239	3648	.6294	9605	04 35	0042	0125
2.000	.0082	. 0230	.0221	.0725	. 2950	9350	0369	0073	0091
3.000	. 0092	.0199	.0234	.5527	1901	9233	0341	0127	0056
₩.00C	.0115	.0162	.0238	.7975	4632	5041	0285	0190	0039
5.000	.0143	.0138	. 0246	.8805	5341	87:0	62+1	0251	0035
6.00U	.0173	.0117	. 0252	.9163	5019	~.8094	0197	3308	0037
7.000	.0203	.0102	.0252	.9216	<b>28</b> 66	6360	0151	0353	0053
0.000	. 02 36	.0105	. C	.9005	. 2339	2122	0104	03E5	0105
9.000	.0263	.0159	.0197	.7966	.6640	. 3770	0094	0300	- 0225
10.000	.0070	. 6265	.6:7:	. 365%	.0771	.2:32	0157	- 0105	- 0373
11.000	. 0279	.0395	.0220	- ,2441	.8415	~.7293	0336	0104	045+
12.000	.0263	.0481	.0286	5308	.8633	8850	0504	0069	0+57
13.000	. 0240	. 0443	. 0362	5563	.8713	8928	0464	0059	0921
14.000	.0222	.0367	.0206	4760	.8701	8476	0352	0063	- 383
15.000	. 0208	.0352	.0201	4863	.8668	<b>8</b> 572	0346	0056	0 353
16.000	.0191	. 0346	.0213	4628	.8379	8717	0368	0058	03ch
17.000	.0177	.0321	.0211	3660	.7910	8589	0356	0057	02€7
18.000	.0169	.027 <b>7</b>	.0192	1682	.7 <i>2</i> 80	7982	C300	- 0065	0253
19.000	.0168	. 0238	.0178	.0544	. 6653	7093	0248	0108	0228
20.000	.0172	.0211	.0172	.2461	.6136	6143	0211	0133	0211
21.000	.0180	.0:90	.0170	.4128	.5767	5060	0188	0160	0193
22.000	.0191	.0179	.0176	.5273	.5472	4225	0164	0180	013+
23.000	. 0205	.0179	.0182	.5780	.5577	3550	0156	020A	- C202
24.000	. 021 <b>9</b>	.0187	.0184	.5818	.5977	-, 3044	- 0152	0216	0221
25.000	. 0234	.0197	. 3185	.5806	.6452	2475	0147	0222	0248
26.000	. 0249	. 0215	.0188	.5477	.6817	~.238 <b>8</b>	0153	0222	0276
27.000	. 0262	.0233	.0194	.5144	.6973	2559	+.0165	0254	0_00
28.000	.0274	. 0249	.0204	.4899	.6987	28!4	0179	0029	03:8
29.000	.0281	. 0269	. ต.>า6	.4238	.7215	3246	0194	0217	0345
30.000	.0303	.0303	.0009	. 3478	.7617	34.5	0209	Ca10	0390
				TA	BLE B-5				
STATION 7	25720 <b>M</b> O	NTH 7							
LEVEL	CVP	CVD	CVT	R(P,T)	R(P,D)	R(T,D)	DCVP	DCVD	DCVT
nnn	0064	07.75	04.13	- 0256	0.70		0001		

STATION 78	25720 MON	NTH 7							
<b>LEVEL</b>	CVP	CVD	CVT	R(P,T)	R(P,D)	R(T,D)	DCVP	DCVD	DCVT
.000	.0064	.0472	.0412	9256	. 94 39	9987	0821	0004	0124
1.000	.0036	.0308	. 0288	5101	. 5930	9951	0560	0016	0055
1 288	.0032	. 0267	. 0256	2633	. 3732	9933	0491	0022	00.42
≥.000	.0031	.0117	.0115	.0755	. 1938	9636	0201	0029	0033
3.000	. 0035	.0088	.0097	.4306	0781	9334	0150	2044	0026
4.000	. 0041	.0066	.0083	.6306	1724	873 <i>2</i>	- 0:08	0059	0024
5 000	.0048	. 005"	.0078	.7346	1785	7997	0084	0072	0034
6.000	. 0056	. 0064	.0088	.6848	0637	7708	0095	0080	0032
7.000	.0065	.0067	.0098	.7297	~.0976	7518	6100	0095	0034
8.000	.0075	,0068	.0107	.7719	1146	7201	0101	0113	0075
¥.000	. UUU /	. 0065	.0117	.8113	1100	€ <sup>-</sup> .3	6096	-1.7.35	-15795
10.000	.0101	.0071	.0124	.8197	0054	5773	0094	0155	00+6
11.000	.0115	. 0082	.0119	. 754 1	. 3075	3930	0086	0152	- core
15.000	0123	.01;9	.0108	.4806	.5998	4135	0104	0113	0:34
13.000	.0129	.0177	. 0114	0645	. 7665	6904	0163	0005	0:9=
14.000	.0124	.0218	.0137	3948	.8166	85 <i>2</i> 8	0231	6043	- 10,105
15.000	.0113	. 0231	.0157	4439	.7911	8993	0275	0039	0166
16.000	.0104	. 0210	.0150	- 3506	. 7456	8855	0255	00***	0165
17.0ა <b>0</b>	.0096	.0165	.0120	1561	.6945	8 91	0190	0051	0141
18.000	. 0095	.0139	.0101	0072	.6906	7282	0145	CC57	0134
19.000	.0096	.0123	.0085	.0736	.72 <b>52</b>	- 6334	0113	0057	Di 34
20.000	.0097	.0109	.0074	.2055	. 7497	4936	0086	0051	0132
21.000	.0099	.0104	.0066	.2642	.7867	3875	0071	0062	0137
22.000	.0102	.0098	.0030	. 3491	. 8226	2457	0055	0063	01+0
23.000	.0104	.0097	.0060	.4008	.8219	1924	0054	0057	0141
24 000	.0109	. 0096	.0060	.4670	.8348	~.0971	0048	0072	0145
25.000	.0112	.0097	.0061	.5018	. 8429	- , 04.24	0045	0076	- 01-9
26.000	.0116	. 0099	.0062	.5110	. 8424	0329	0046	0079	0153
27.003	.0119	.0105	.0071	.4820	.8072	1282	0057	0084	015/2
28.000	.0120	.0100	.0071	.5535	. 8025	05 <i>2</i> 8	0052	0091	0149
29.000	.0125	.0103	.0083	.5754	.7723	0751	0057	0102	01-9
30.0 <u>00</u>	.0133	.0109	ese.	.5000	7:10	C-14F		2102	- 2167

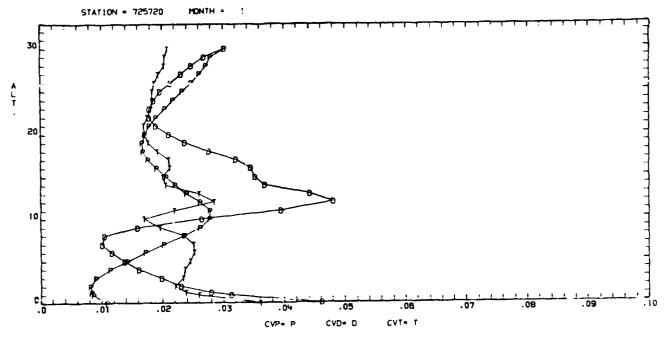


Fig. B-13

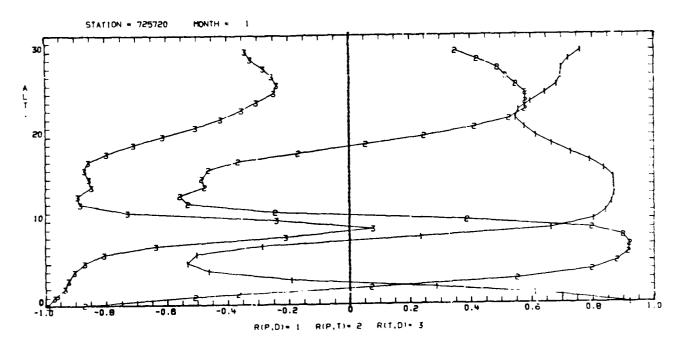


Fig. B-14

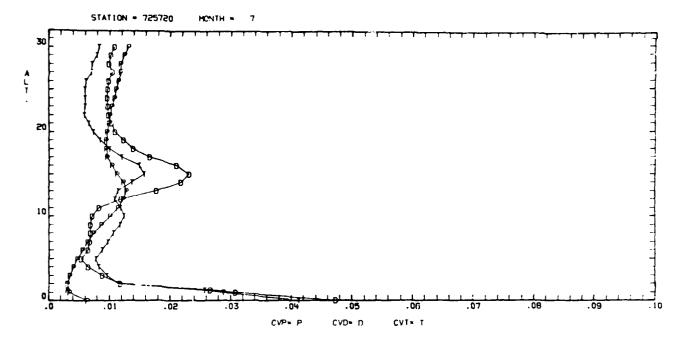


Fig. B-15

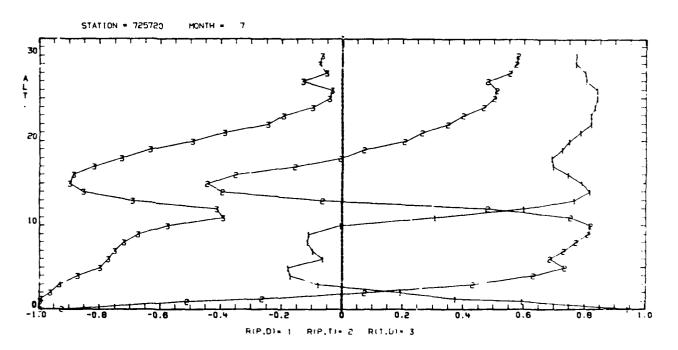


Fig. B-16

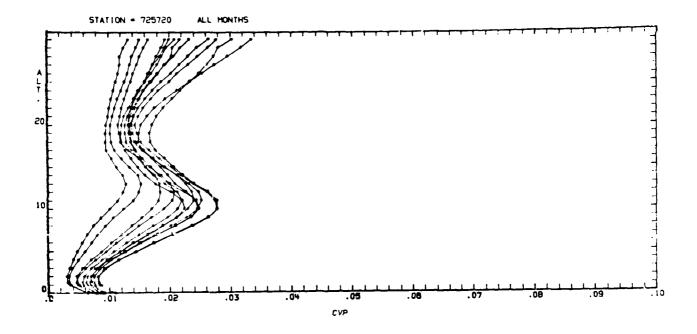


Fig. B-17

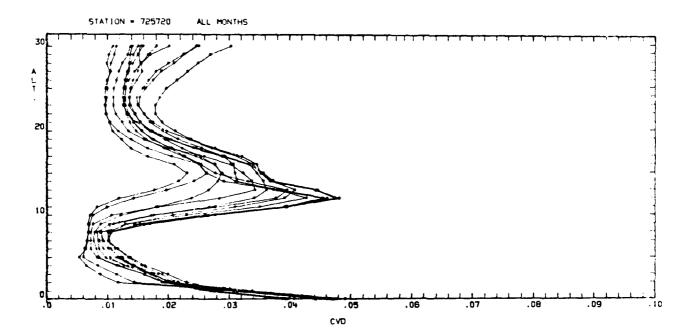


Fig. B-18

170

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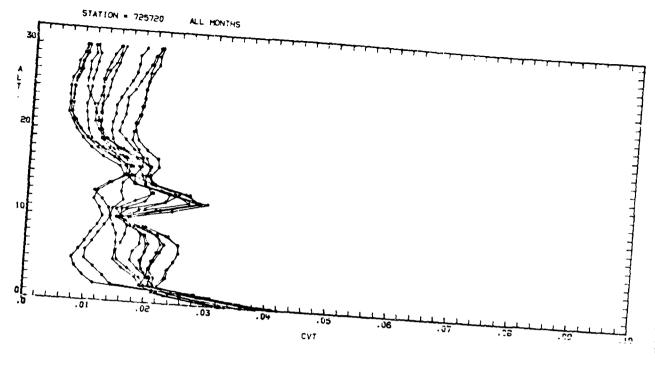


Fig. B-19

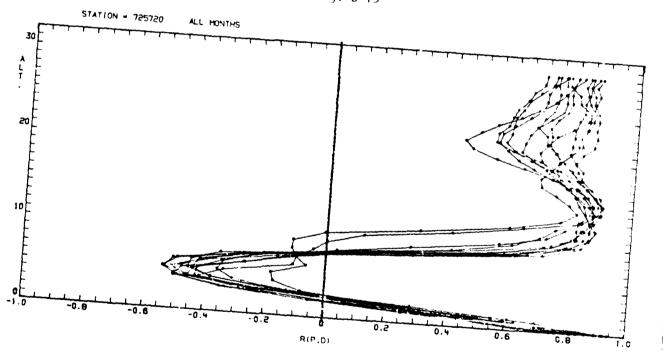


Fig. B-20

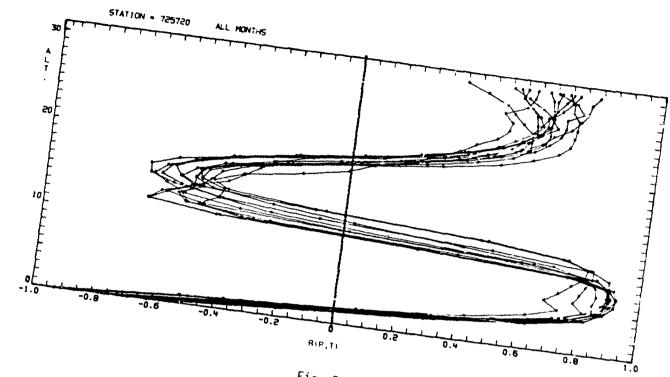


Fig. B-21

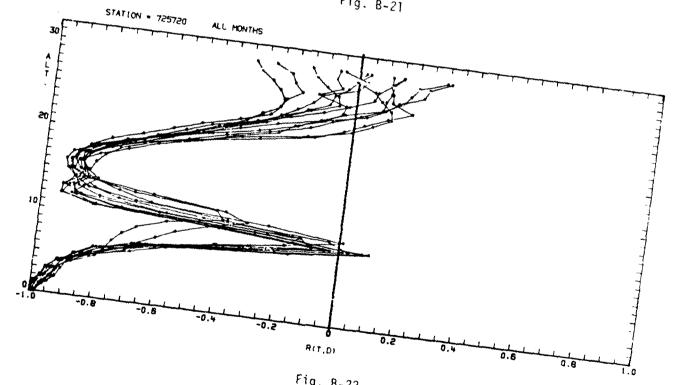


Fig. 8-22